

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013120\
 Data File : VD065026.D
 Acq On : 31 Jan 2020 11:33
 Operator : VA/SY
 Sample : VD0131SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/3/2020 10:52:23 AM

Quant Time: Jan 31 13:11:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	475313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	712252	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	613856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	295197	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	213960	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
35) Dibromofluoromethane	7.92	113	217586	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
50) Toluene-d8	10.34	98	850171	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.64	95	252607	47.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	75827	21.176	ug/l	98
3) Chloromethane	2.21	50	103788	19.776	ug/l	94
4) Vinyl Chloride	2.35	62	118451	19.651	ug/l	97
5) Bromomethane	2.76	94	80750	19.915	ug/l	96
6) Chloroethane	2.92	64	78059	19.643	ug/l	98
7) Trichlorofluoromethane	3.27	101	190925	20.509	ug/l	99
8) Diethyl Ether	3.71	74	39155	18.632	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.08	101	92052	21.254	ug/l	97
10) Methyl Iodide	4.29	142	83823	18.233	ug/l	99
11) Tert butyl alcohol	5.25	59	21219m	84.219	ug/l	
12) 1,1-Dichloroethene	4.06	96	86836	20.988	ug/l	90
13) Acrolein	3.92	56	22728	71.959	ug/l	97
14) Allyl chloride	4.71	41	136637	20.706	ug/l	98
15) Acrylonitrile	5.43	53	84951	93.348	ug/l	100
16) Acetone	4.16	43	86979	81.153	ug/l	96
17) Carbon Disulfide	4.40	76	273545	20.088	ug/l	98
18) Methyl Acetate	4.72	43	41461	19.417	ug/l	96
19) Methyl tert-butyl Ether	5.48	73	167543	18.123	ug/l	99
20) Methylene Chloride	4.96	84	103398	19.406	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	98128	20.585	ug/l	99
22) Diisopropyl ether	6.37	45	266424	20.259	ug/l	96
23) Vinyl Acetate	6.31	43	689291	89.521	ug/l	100
24) 1,1-Dichloroethane	6.27	63	166755	20.652	ug/l	97
25) 2-Butanone	7.23	43	107637	87.385	ug/l	93
26) 2,2-Dichloropropane	7.21	77	152405	20.809	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	101864	20.021	ug/l	97
28) Bromochloromethane	7.55	49	52096	16.133	ug/l	100
29) Tetrahydrofuran	7.57	42	65544	86.243	ug/l	97
30) Chloroform	7.71	83	170409	20.416	ug/l	95
31) Cyclohexane	7.98	56	160312	20.182	ug/l	93
32) 1,1,1-Trichloroethane	7.91	97	160584	20.680	ug/l	99
36) 1,1-Dichloropropene	8.11	75	139767	20.350	ug/l	99
37) Ethyl Acetate	7.30	43	50299	17.730	ug/l	97
38) Carbon Tetrachloride	8.10	117	149255	20.561	ug/l	92

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Quant Time: Jan 31 13:11:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	157285	19.588	ug/l	96
40) Benzene	8.35	78	372434	19.689	ug/l	98
41) Methacrylonitrile	7.53	41	26848	17.568	ug/l	92
42) 1,2-Dichloroethane	8.43	62	104297	18.510	ug/l	96
43) Isopropyl Acetate	8.46	43	92513	17.167	ug/l	96
44) Trichloroethene	9.11	130	107068	20.225	ug/l	94
45) 1,2-Dichloropropane	9.39	63	90964	19.837	ug/l	97
46) Dibromomethane	9.48	93	47176	18.844	ug/l	97
47) Bromodichloromethane	9.67	83	129991	19.954	ug/l	99
48) Methyl methacrylate	9.46	41	43936	17.717	ug/l	96
49) 1,4-Dioxane	9.47	88	9529	328.181	ug/l #	79
51) 4-Methyl-2-Pentanone	10.23	43	232275	86.143	ug/l	98
52) Toluene	10.41	92	241558	19.807	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	115430	18.602	ug/l	97
54) cis-1,3-Dichloropropene	10.10	75	140725	19.369	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	63115	18.716	ug/l	94
56) Ethyl methacrylate	10.67	69	70394	17.456	ug/l	97
57) 1,3-Dichloropropane	10.95	76	109414	18.917	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	113701	84.868	ug/l	97
59) 2-Hexanone	10.99	43	158722	85.340	ug/l	99
60) Dibromochloromethane	11.14	129	85962	19.072	ug/l	100
61) 1,2-Dibromoethane	11.25	107	61171	18.838	ug/l	97
64) Tetrachloroethene	10.88	164	93116	20.991	ug/l	96
65) Chlorobenzene	11.67	112	252471	20.257	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	92426	19.718	ug/l	99
67) Ethyl Benzene	11.75	91	454931	20.560	ug/l	99
68) m/p-Xylenes	11.86	106	346777	40.704	ug/l	98
69) o-Xylene	12.19	106	151019	19.973	ug/l	99
70) Styrene	12.20	104	269685	20.023	ug/l	100
71) Bromoform	12.37	173	48725	18.700	ug/l #	100
73) Isopropylbenzene	12.48	105	423885	21.009	ug/l	100
74) N-amyl acetate	12.30	43	80859	17.910	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	65676	19.367	ug/l	100
76) 1,2,3-Trichloropropane	12.79	75	53650m	21.896	ug/l	
77) Bromobenzene	12.77	156	99934	20.243	ug/l	99
78) n-propylbenzene	12.83	91	511715	21.326	ug/l	99
79) 2-Chlorotoluene	12.91	91	273151	20.751	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	350791	21.216	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	21820	19.015	ug/l	99
82) 4-Chlorotoluene	13.01	91	288357	20.657	ug/l	99
83) tert-Butylbenzene	13.23	119	283460	20.202	ug/l	97
84) 1,2,4-Trimethylbenzene	13.28	105	350154	20.905	ug/l	99
85) sec-Butylbenzene	13.41	105	416151	20.946	ug/l	98
86) p-Isopropyltoluene	13.53	119	384849	20.701	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	189686	20.026	ug/l	99
88) 1,4-Dichlorobenzene	13.61	146	192542	20.481	ug/l	99
89) n-Butylbenzene	13.85	91	355174	20.934	ug/l	99
90) Hexachloroethane	14.12	117	75396	21.030	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	161407	20.072	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	9242	17.030	ug/l	97

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ClientSampleId :
VD0131SBS01

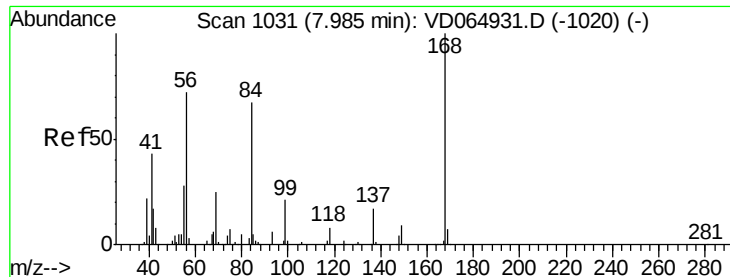
Manual Integrations
APPROVED

MMDadoda
2/3/2020 10:52:23 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	110448	19.853	ug/l	100
94) Hexachlorobutadiene	15.28	225	69847	19.850	ug/l	99
95) Naphthalene	15.41	128	158009	17.599	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	93637	19.413	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion:168 Resp: 475313

Ion Ratio Lower Upper

168 100

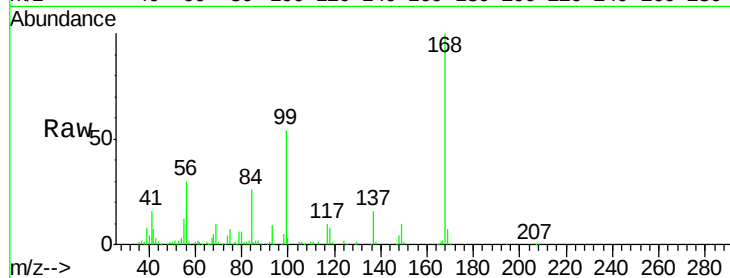
99 53.7 43.3 64.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

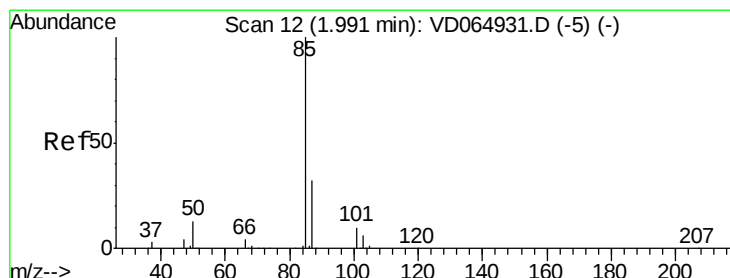
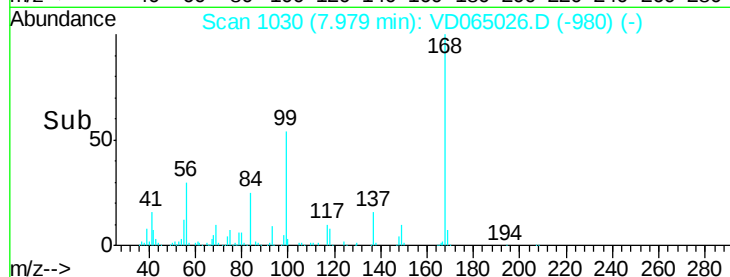
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.176 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065026.D

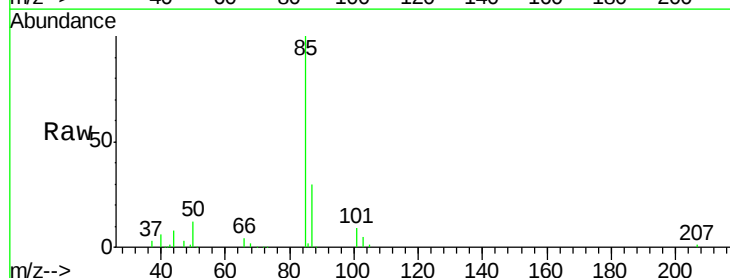
Acq: 31 Jan 2020 11:33

Tgt Ion: 85 Resp: 75827

Ion Ratio Lower Upper

85 100

87 30.4 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

50000

40000

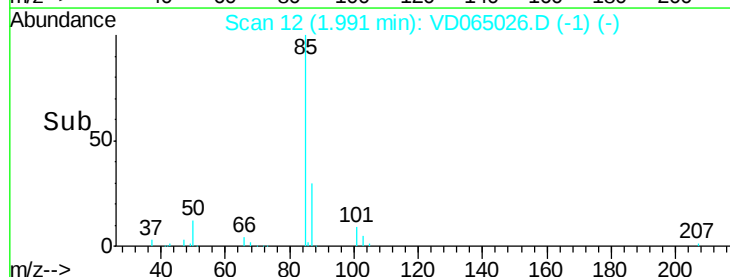
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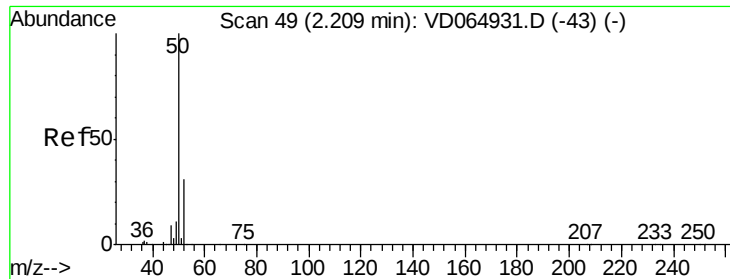
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10000

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Time-->





#3

Chloromethane

Concen: 19.776 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 50 Resp: 103788

Ion Ratio Lower Upper

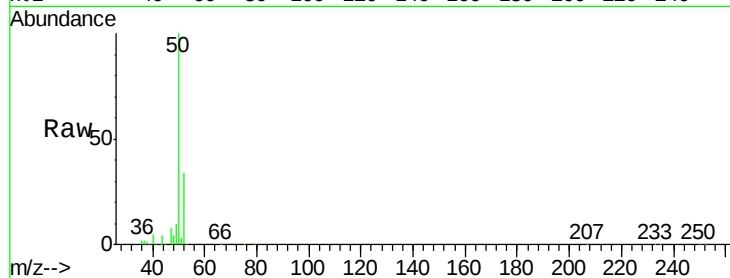
50 100

52 33.8 24.6 36.8

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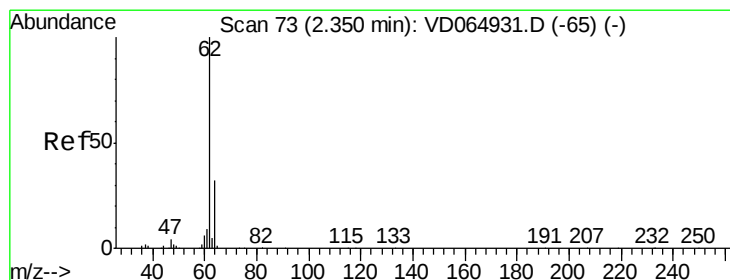
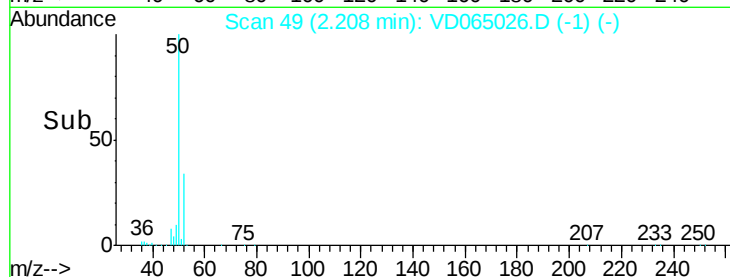
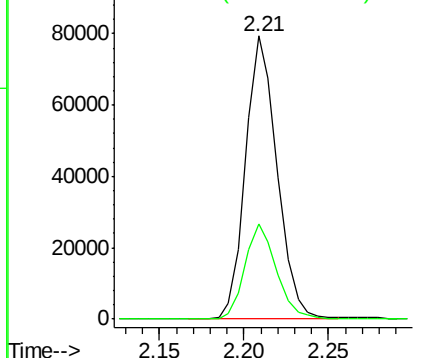
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.651 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065026.D

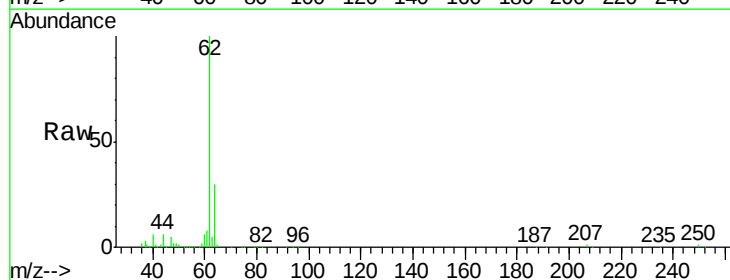
Acq: 31 Jan 2020 11:33

Tgt Ion: 62 Resp: 118451

Ion Ratio Lower Upper

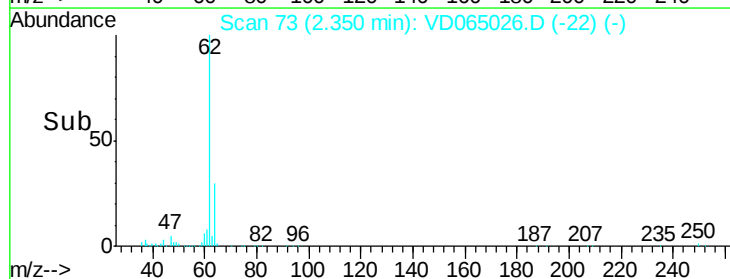
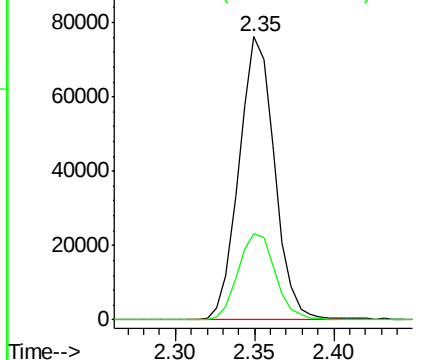
62 100

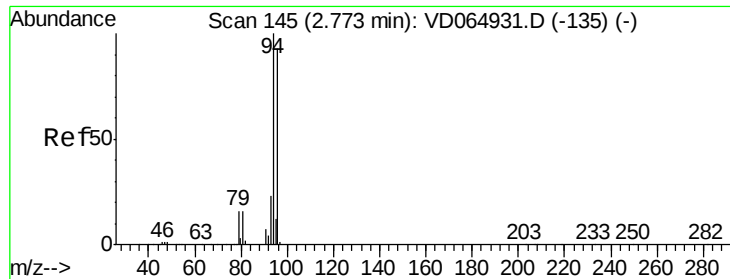
64 30.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 19.915 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 94 Resp: 80750

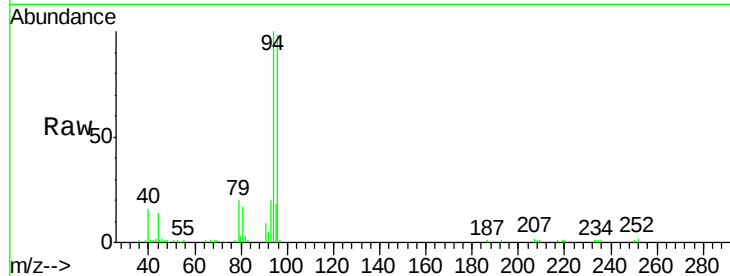
Ion Ratio Lower Upper

94 100

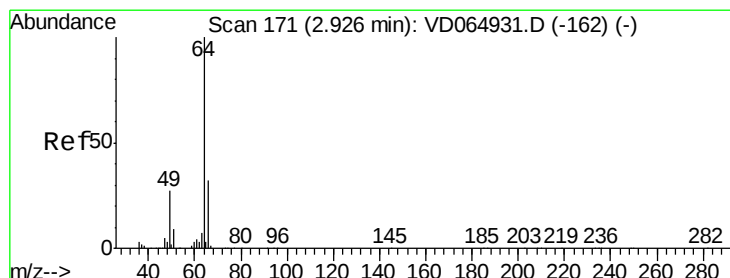
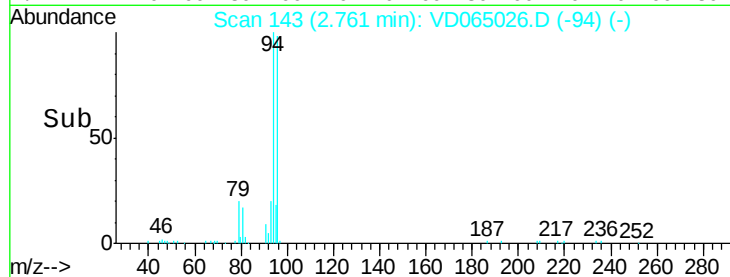
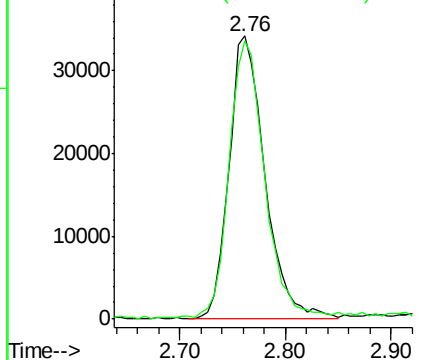
96 97.1 74.6 111.8

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Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 19.643 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065026.D

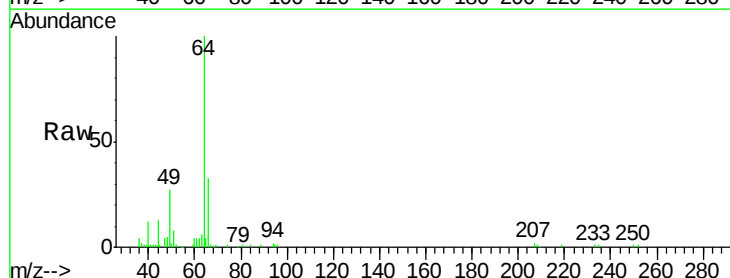
Acq: 31 Jan 2020 11:33

Tgt Ion: 64 Resp: 78059

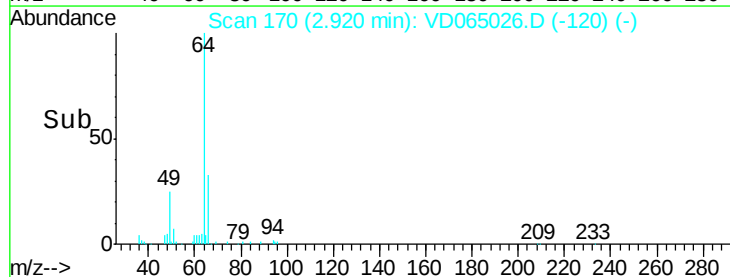
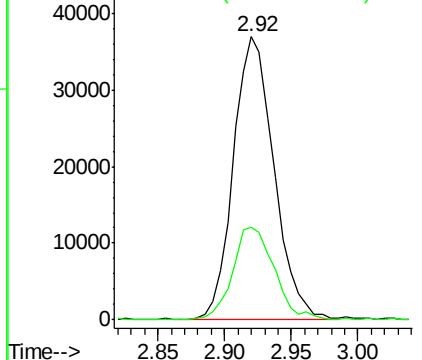
Ion Ratio Lower Upper

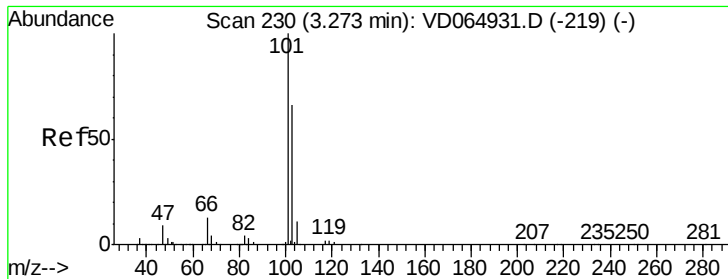
64 100

66 32.6 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC
Ion 65.90 (65.60 to 66.60): VDC





#7

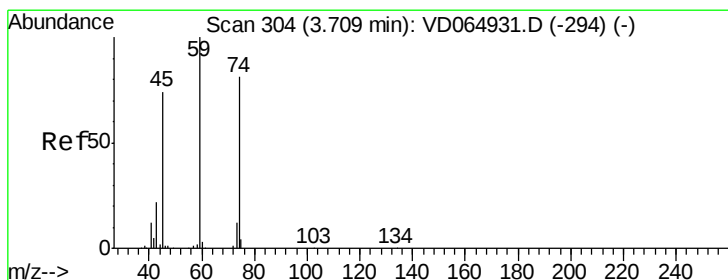
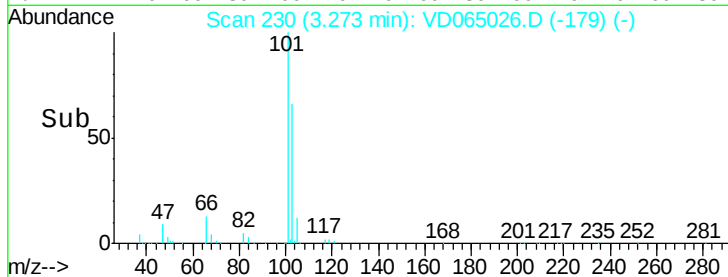
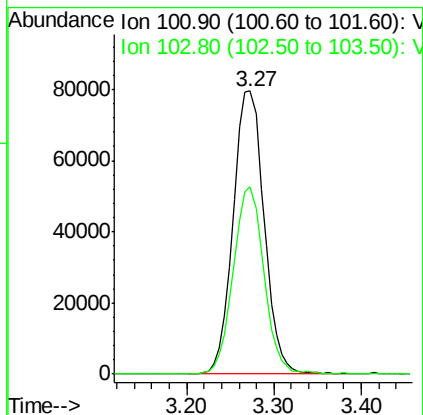
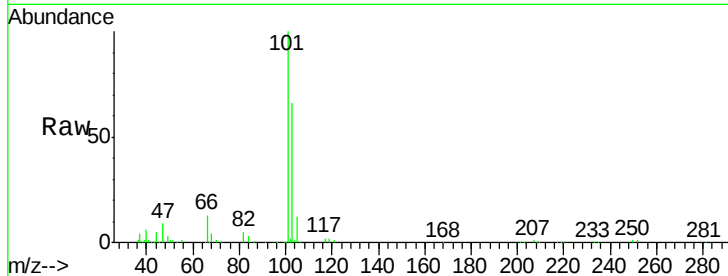
Trichlorofluoromethane
Concen: 20.509 ug/l
RT: 3.27 min Scan# 230
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

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VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	190925		
103	66.3	52.5	78.7	

Manual Integrations
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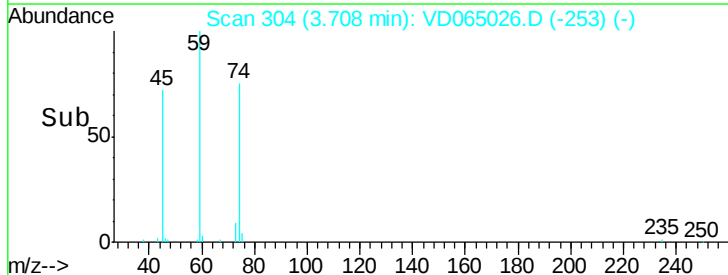
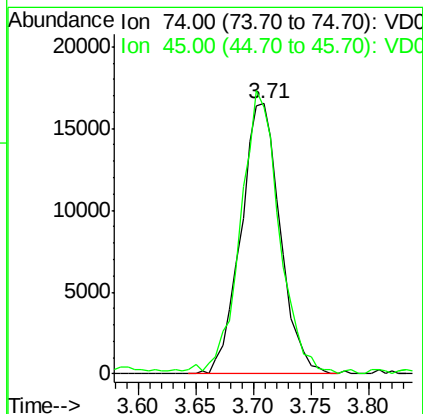
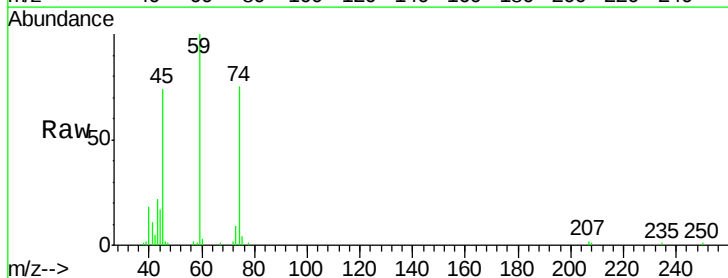
MMDadoda
2/3/2020 10:52:23 AM

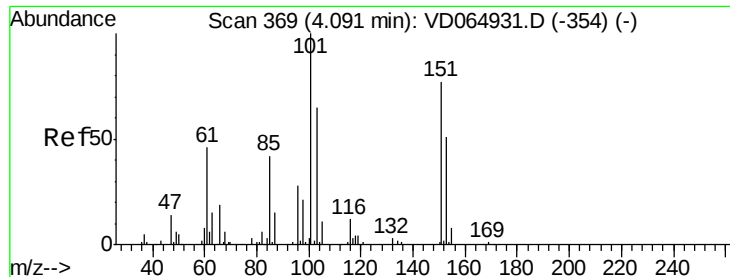


#8

Diethyl Ether
Concen: 18.632 ug/l
RT: 3.71 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	39155		
45	103.7	48.5	145.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.254 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

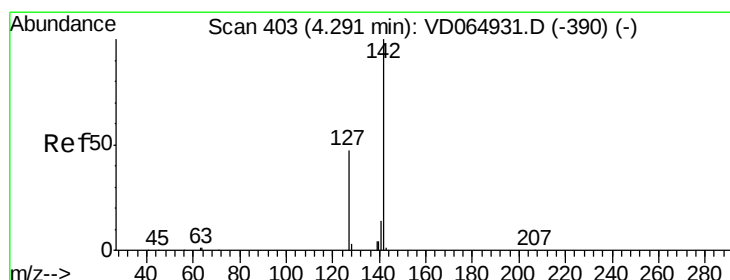
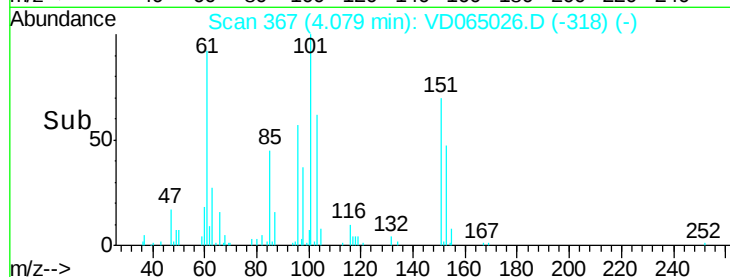
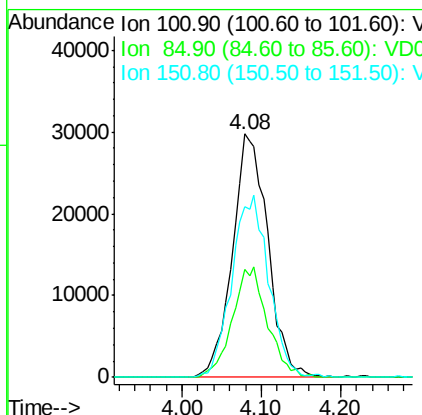
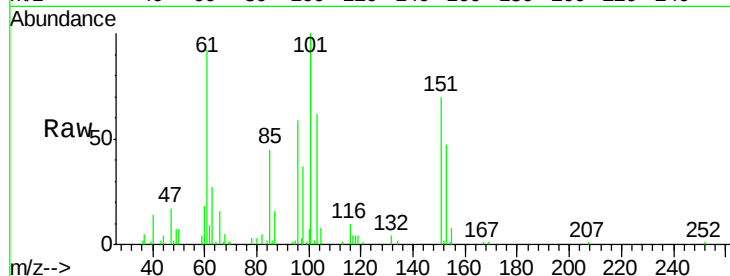
ClientSampleId :

VD0131SBS01

Tot Ion:	101	Resp:	92052
Ion Ratio	Lower	Upper	
101	100		
85	44.5	35.0	52.4
151	77.6	64.6	96.8

Manual Integrations
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#10

Methyl Iodide

Concen: 18.233 ug/l

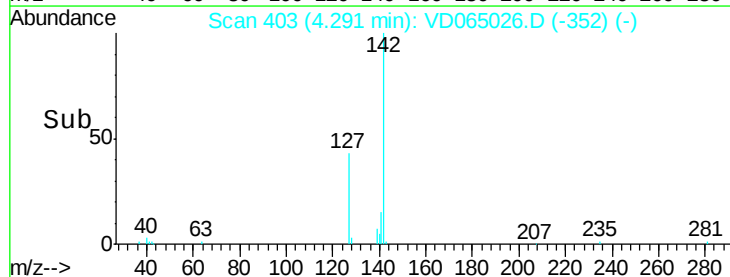
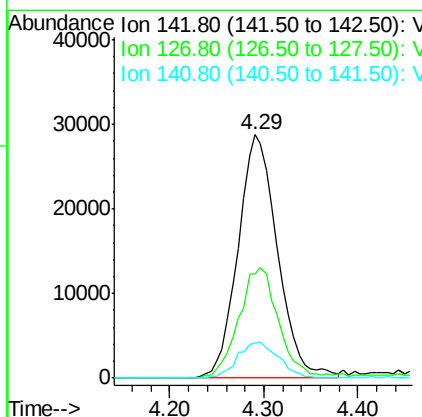
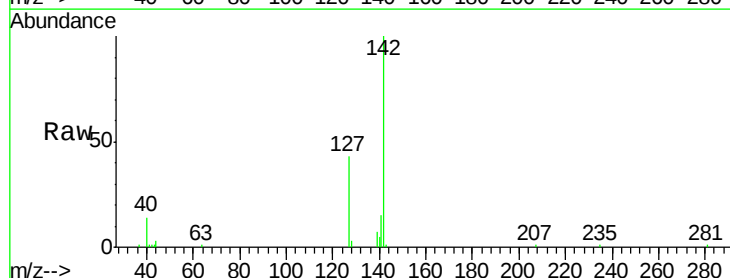
RT: 4.29 min Scan# 403

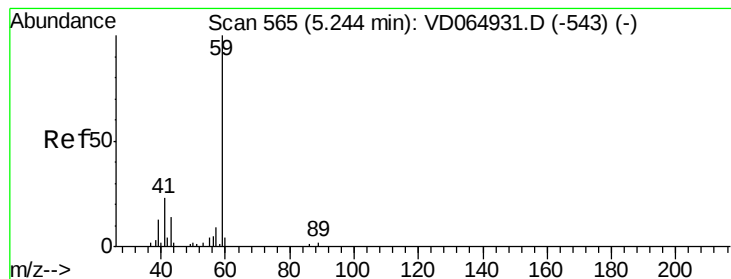
Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	142	Resp:	83823
Ion Ratio	Lower	Upper	
142	100		
127	45.4	36.2	54.2
141	15.2	11.6	17.4





#11

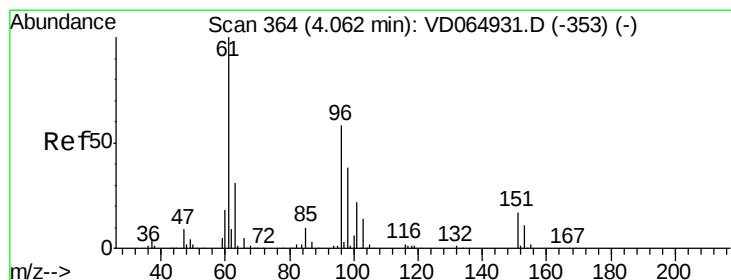
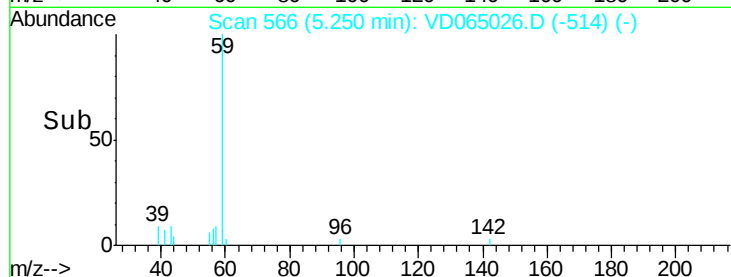
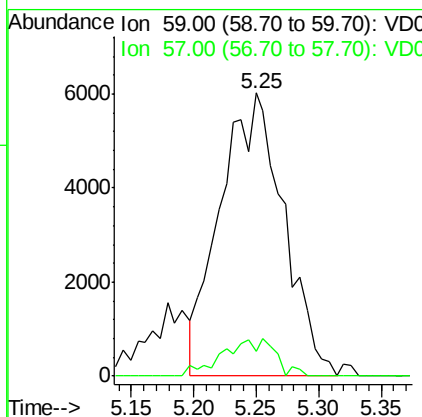
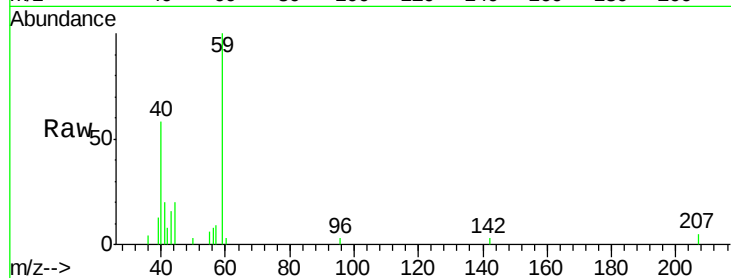
Tert butyl alcohol
 Concen: 84.219 ug/l m
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion: 59 Resp: 21219
 Ion Ratio Lower Upper
 59 100
 57 7.1 7.7 11.5#

Manual Integrations
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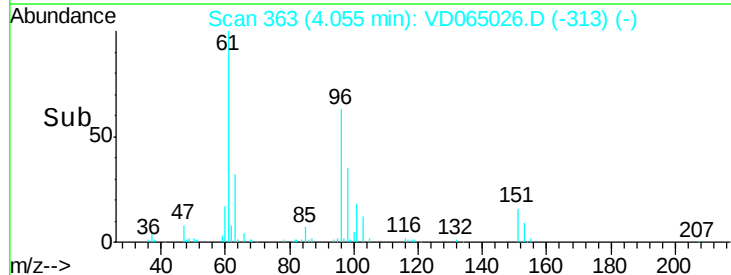
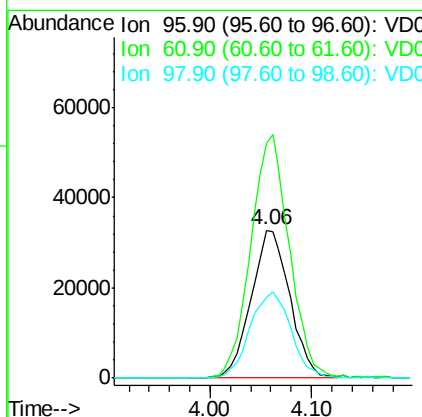
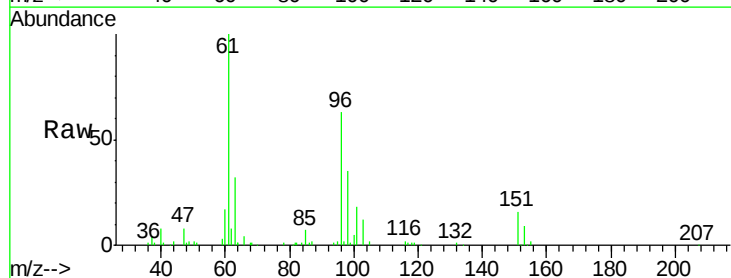
MMDadoda
 2/3/2020 10:52:23 AM

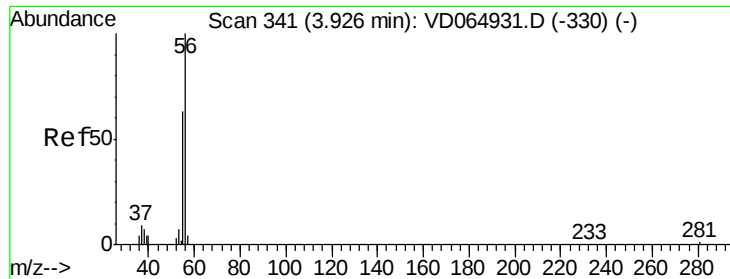


#12

1,1-Dichloroethene
 Concen: 20.988 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion: 96 Resp: 86836
 Ion Ratio Lower Upper
 96 100
 61 158.3 137.0 205.4
 98 55.1 52.1 78.1





#13

Acrolein

Concen: 71.959 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 56 Resp: 22728

Ion Ratio Lower Upper

56 100

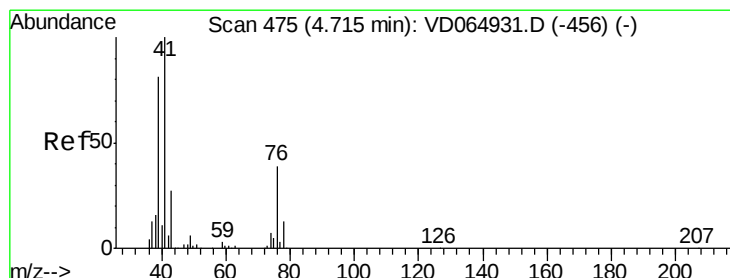
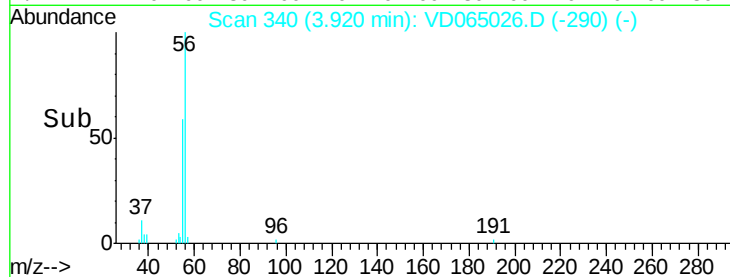
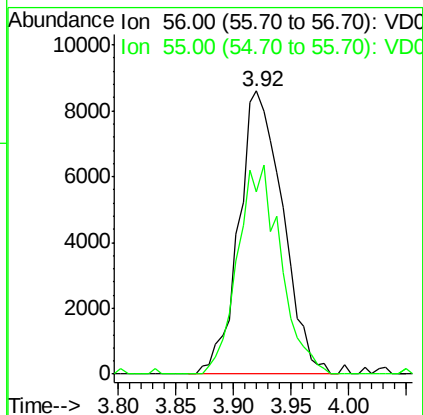
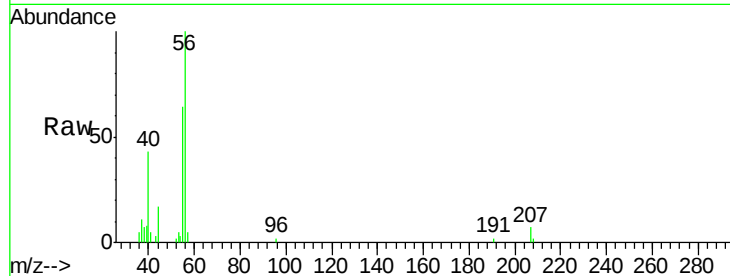
55 72.2 59.7 89.5

Manual Integrations

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#14

Allyl chloride

Concen: 20.706 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

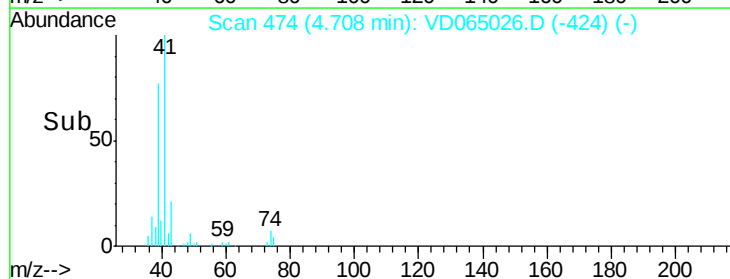
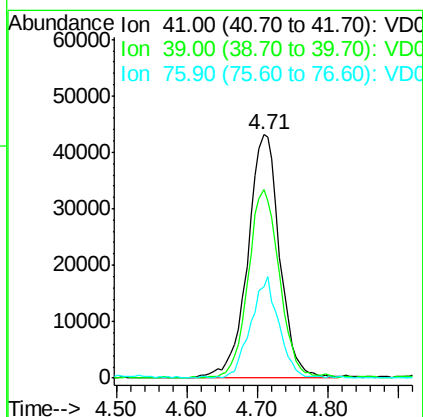
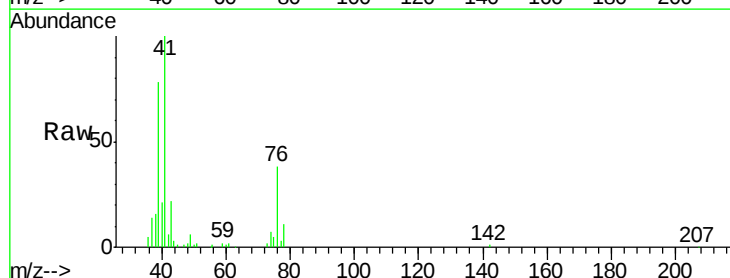
Tgt Ion: 41 Resp: 136637

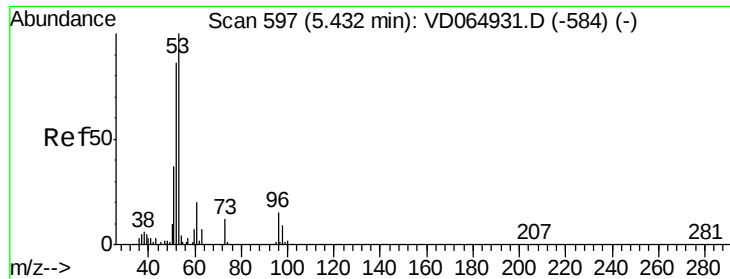
Ion Ratio Lower Upper

41 100

39 75.7 62.0 93.0

76 36.4 29.3 43.9





#15

Acrylonitrile

Concen: 93.348 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

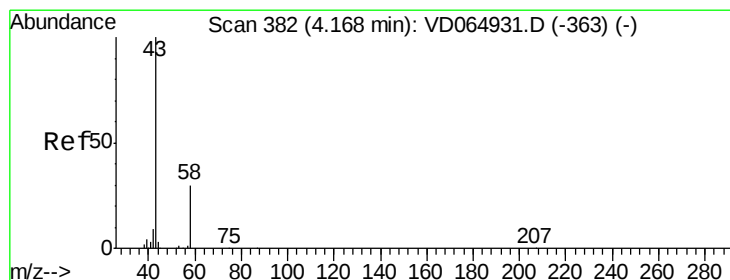
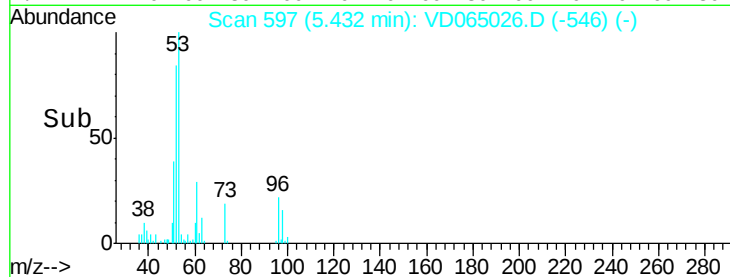
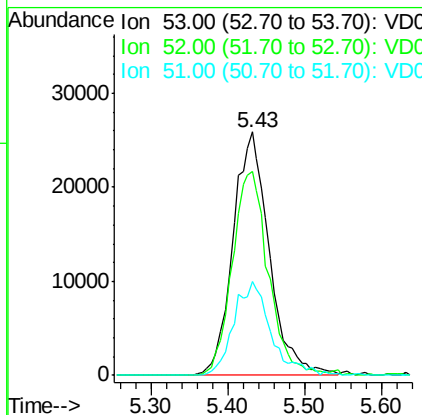
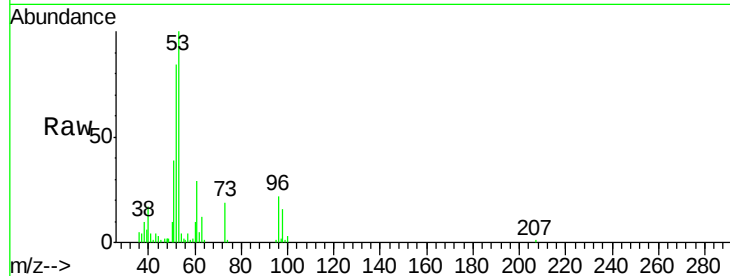
ClientSampleId :

VD0131SBS01

Tot Ion:	53	Resp:	84951
Ion Ratio	Lower	Upper	
53	100		
52	83.5	66.7	100.1
51	39.0	31.1	46.7

Manual Integrations
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#16

Acetone

Concen: 81.153 ug/l

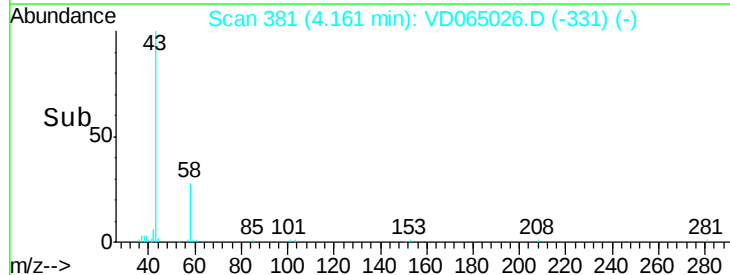
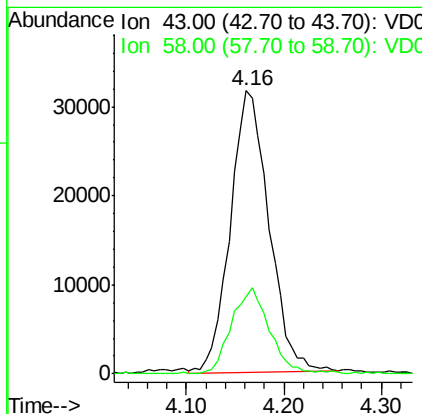
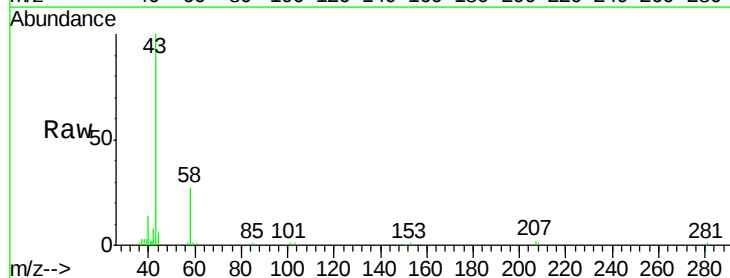
RT: 4.16 min Scan# 381

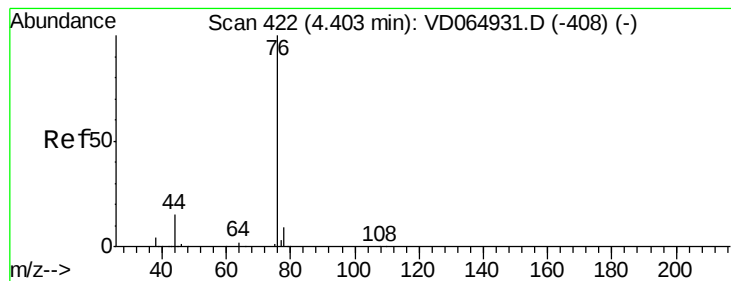
Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	43	Resp:	86979
Ion Ratio	Lower	Upper	
43	100		
58	27.7	23.8	35.8





#17

Carbon Disulfide

Concen: 20.088 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 76 Resp: 273545

Ion Ratio Lower Upper

76 100

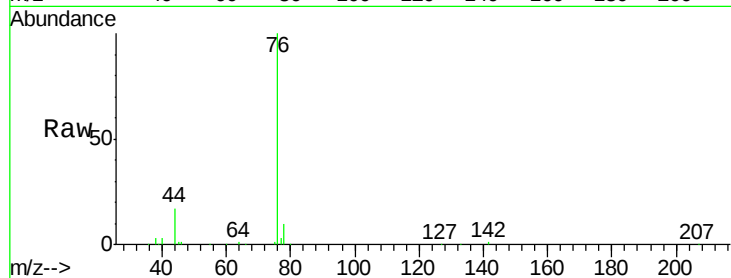
78 9.7 7.1 10.7

Manual Integrations

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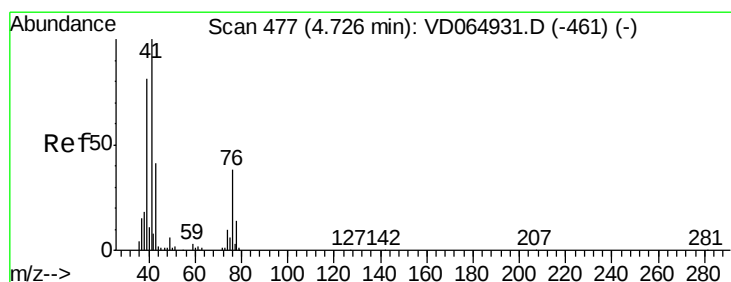
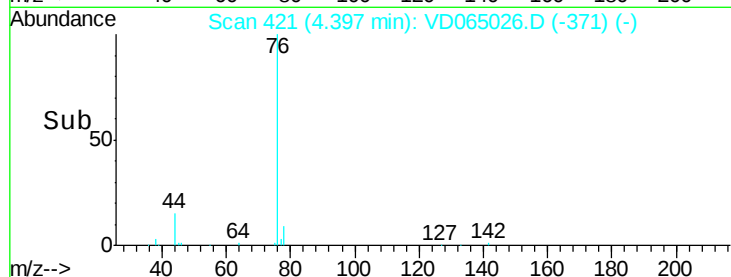
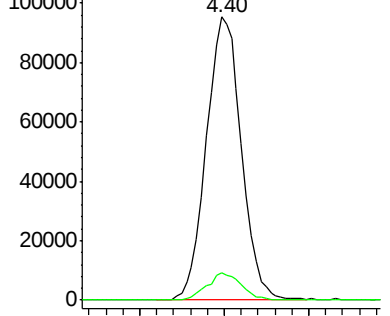
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 19.417 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065026.D

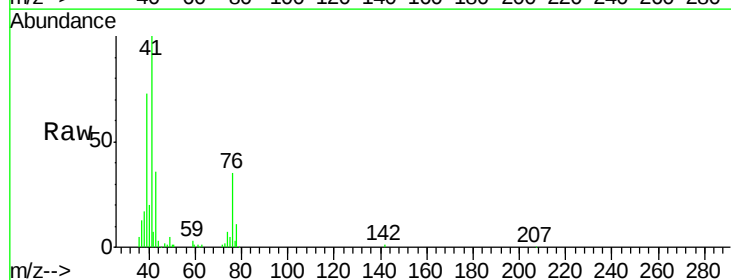
Acq: 31 Jan 2020 11:33

Tgt Ion: 43 Resp: 41461

Ion Ratio Lower Upper

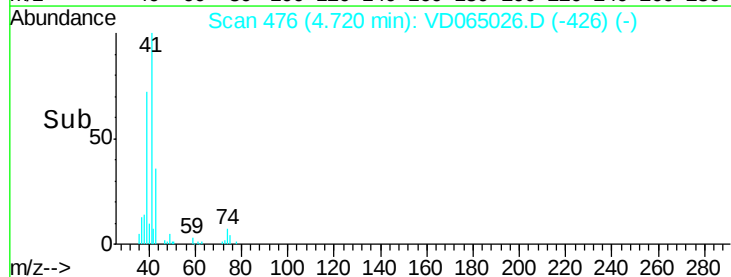
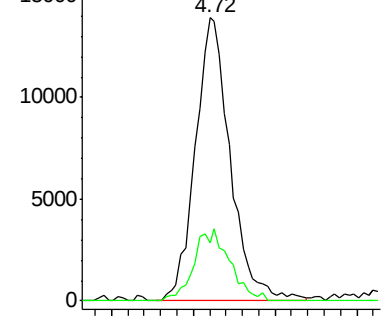
43 100

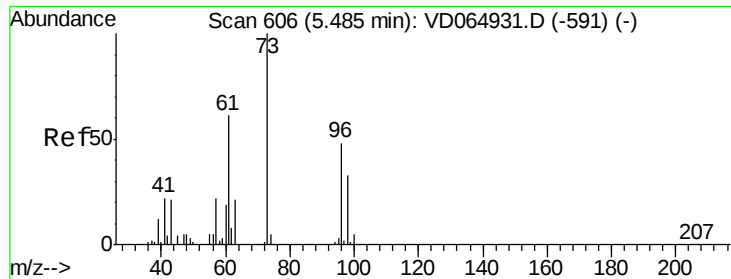
74 25.9 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





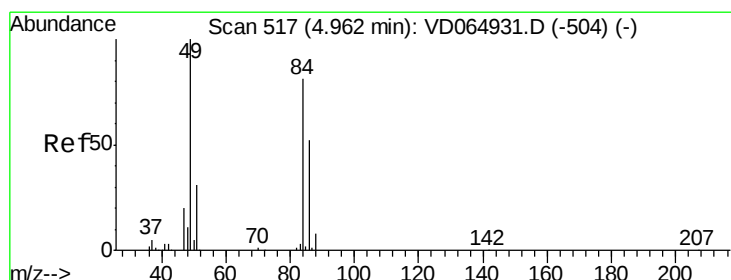
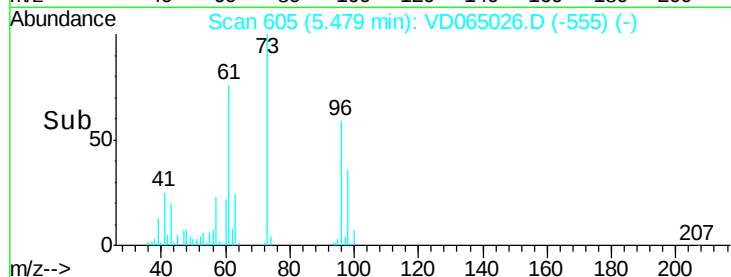
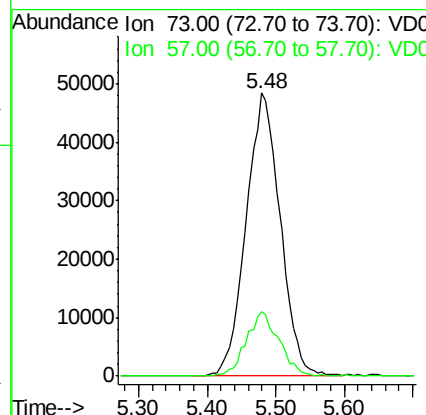
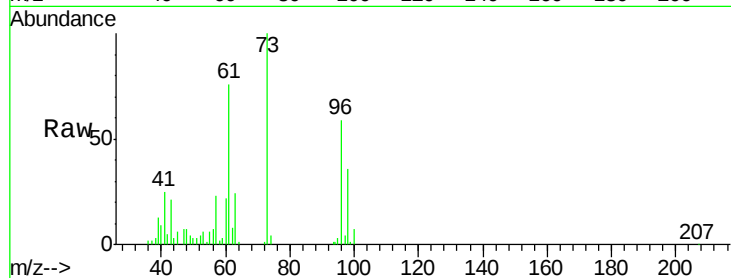
#19
Methyl tert-butyl Ether
Concen: 18.123 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion: 73 Resp: 167543
Ion Ratio Lower Upper
73 100
57 22.7 17.9 26.9

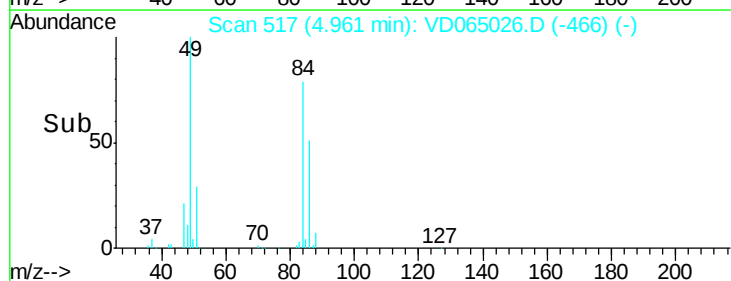
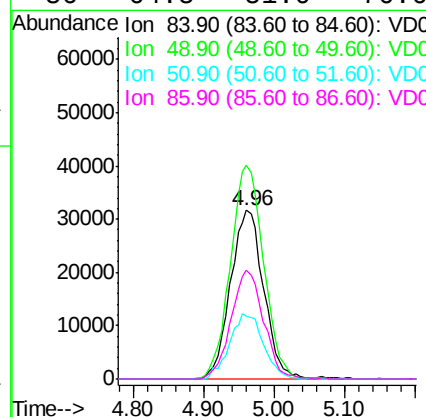
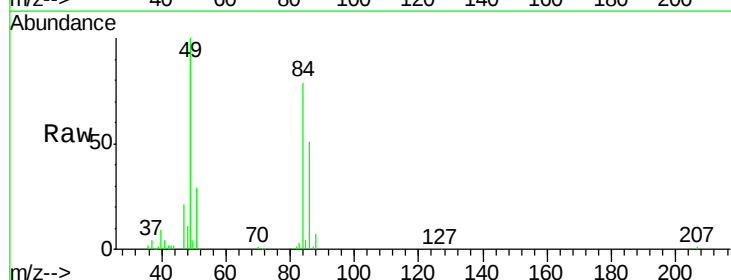
Manual Integrations
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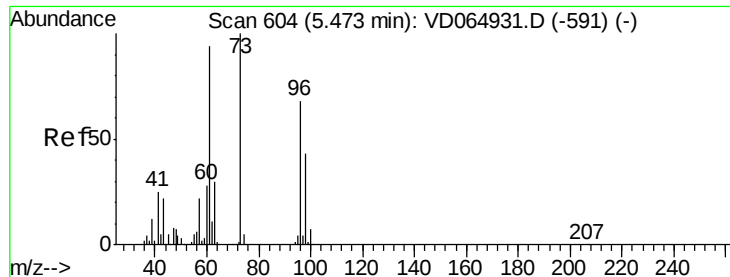
MMDadoda
2/3/2020 10:52:23 AM



#20
Methylene Chloride
Concen: 19.406 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion: 84 Resp: 103398
Ion Ratio Lower Upper
84 100
49 126.4 98.4 147.6
51 36.8 30.8 46.2
86 64.5 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 20.585 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 96 Resp: 98128

Ion Ratio Lower Upper

96 100

61 137.3 110.4 165.6

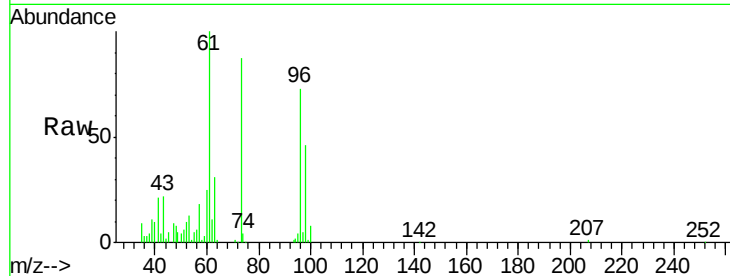
98 63.6 50.5 75.7

Manual Integrations

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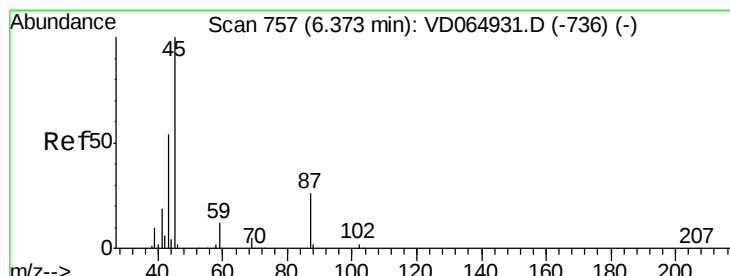
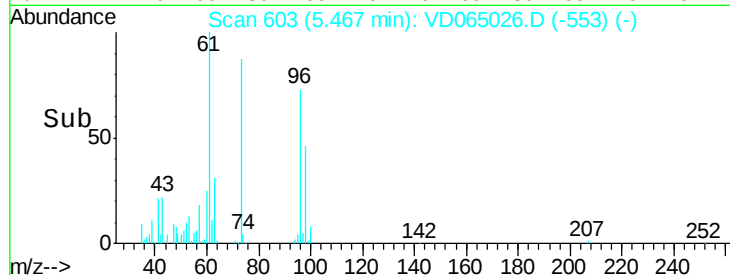
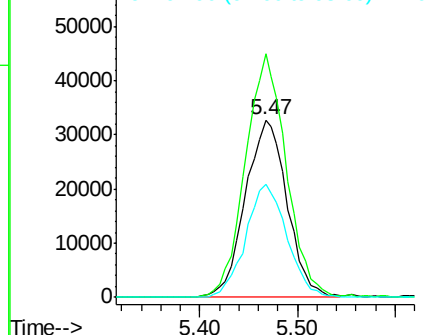


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 20.259 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion: 45 Resp: 266424

Ion Ratio Lower Upper

45 100

43 51.4 43.1 64.7

87 23.7 21.4 32.2

59 10.7 9.5 14.3

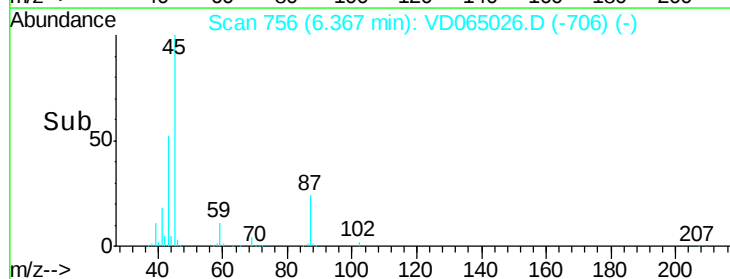
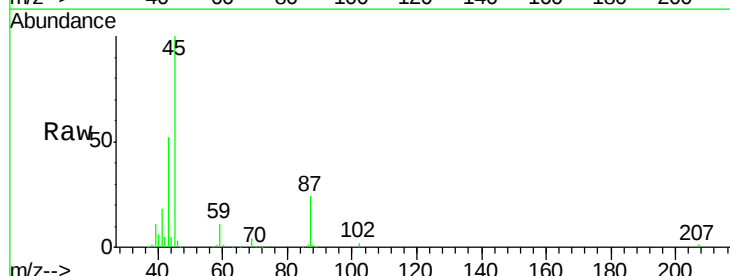
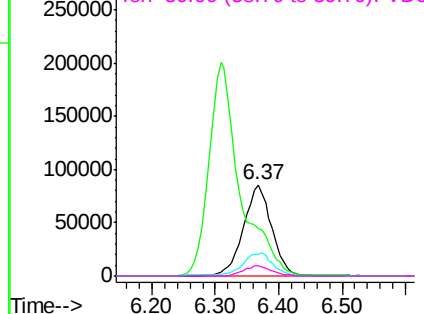
Abundance

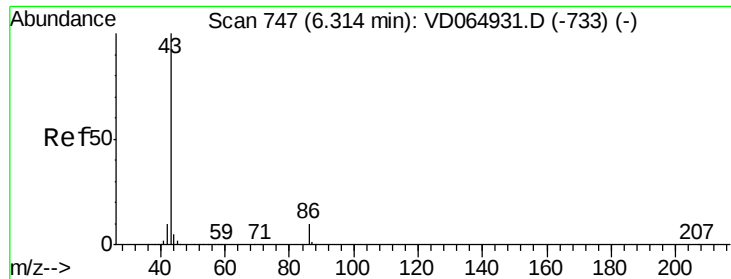
Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 89.521 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 43 Resp: 689291

Ion Ratio Lower Upper

43 100

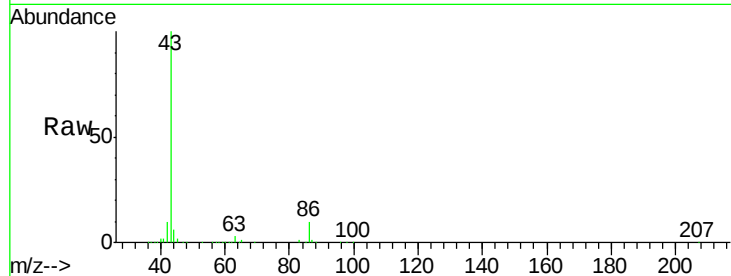
86 10.3 8.3 12.5

Manual Integrations

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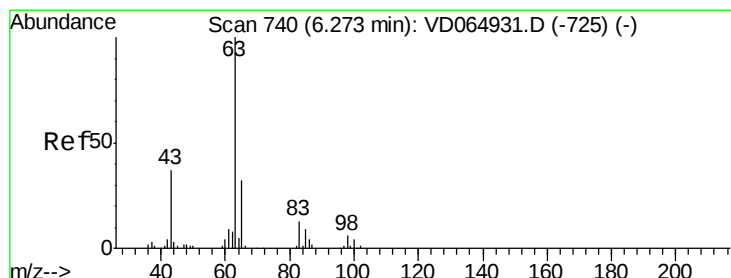
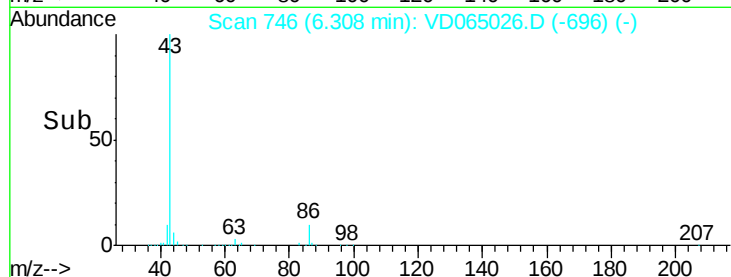
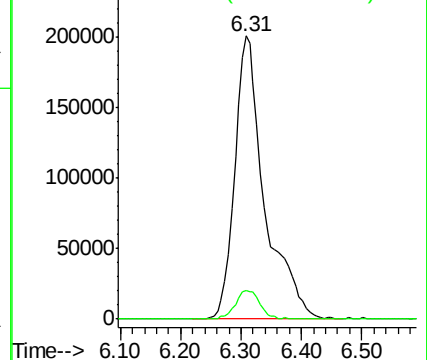
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.652 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

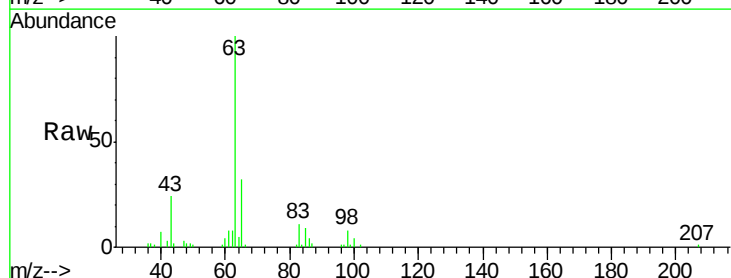
Tgt Ion: 63 Resp: 166755

Ion Ratio Lower Upper

63 100

98 7.7 3.1 9.3

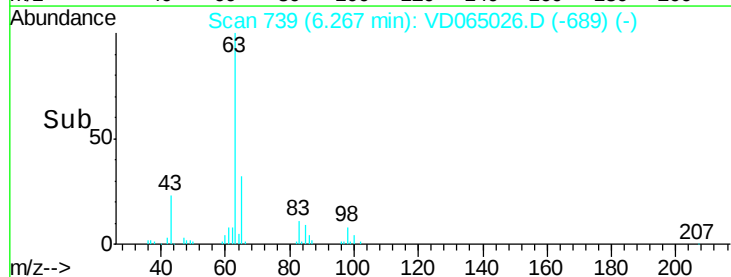
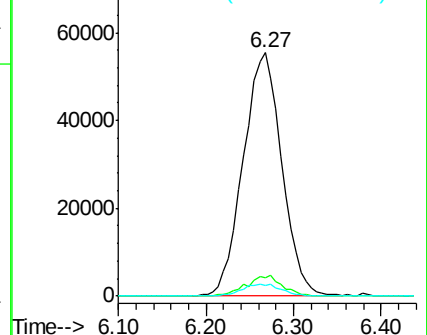
100 4.2 2.3 6.8

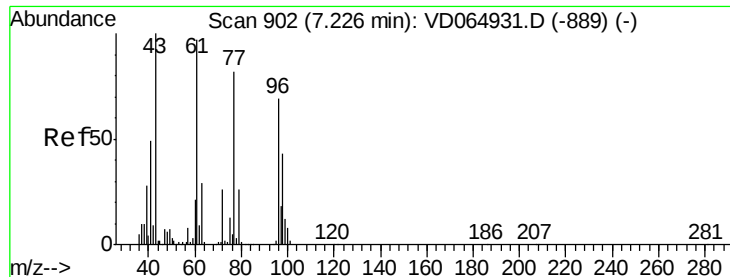


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 87.385 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 43 Resp: 107637

Ion Ratio Lower Upper

43 100

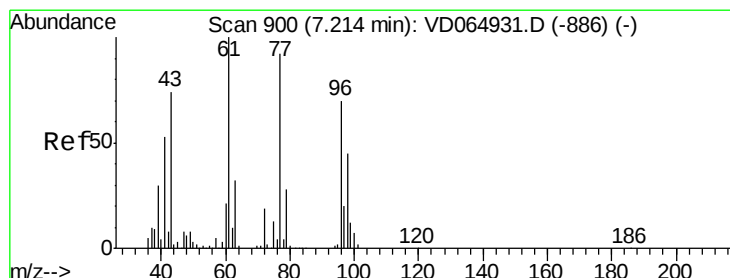
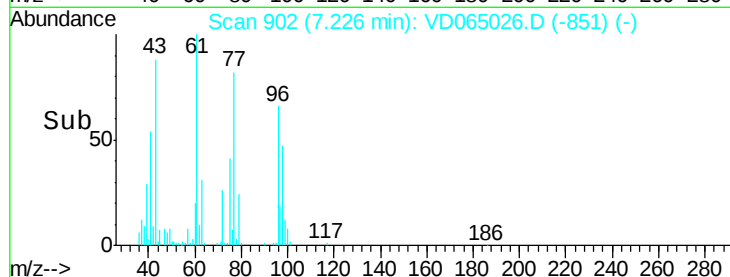
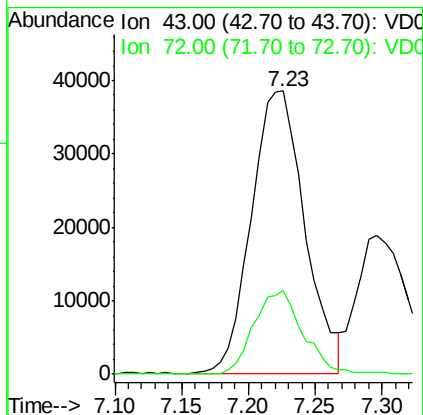
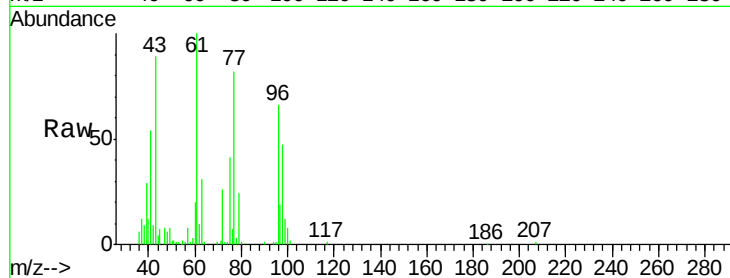
72 29.5 20.6 31.0

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#26

2,2-Dichloropropane

Concen: 20.809 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065026.D

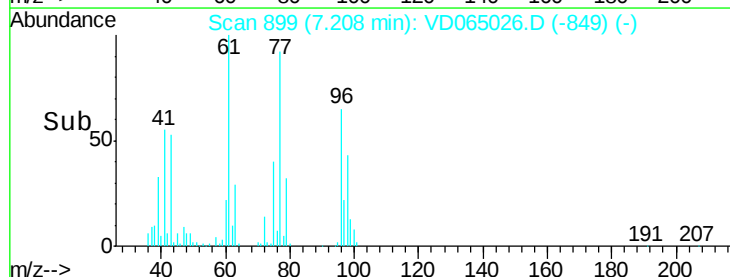
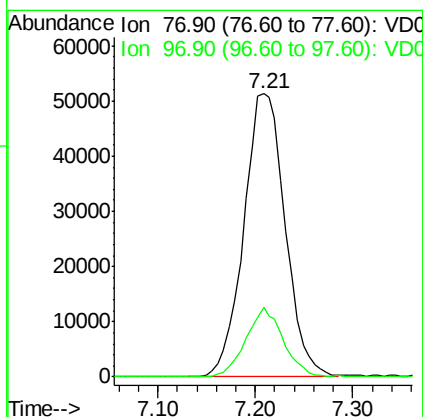
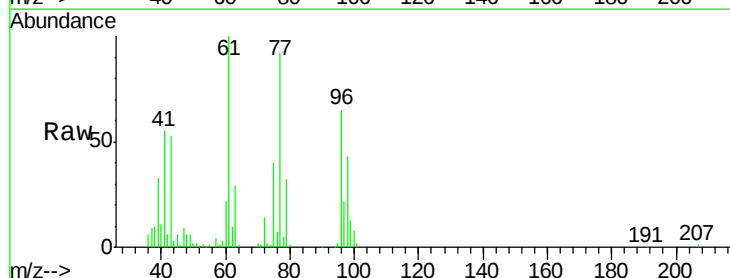
Acq: 31 Jan 2020 11:33

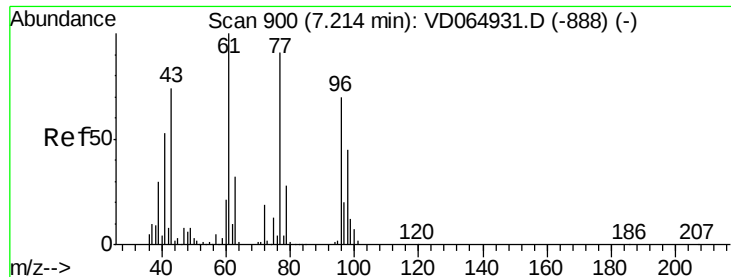
Tgt Ion: 77 Resp: 152405

Ion Ratio Lower Upper

77 100

97 22.0 11.4 34.2





#27

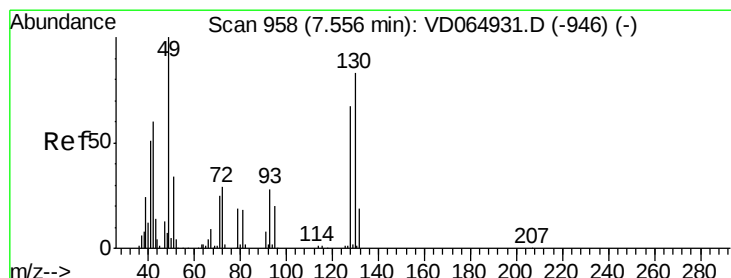
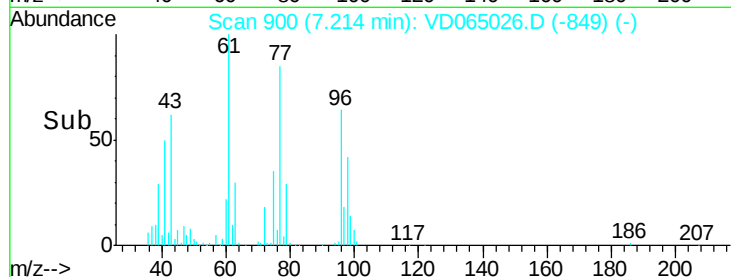
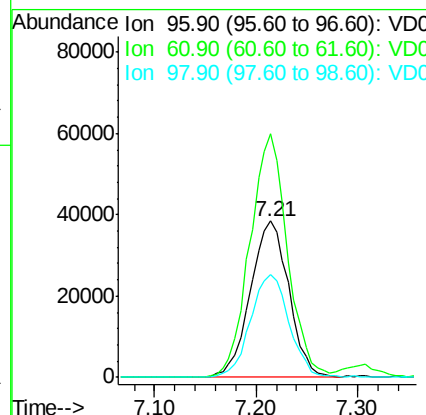
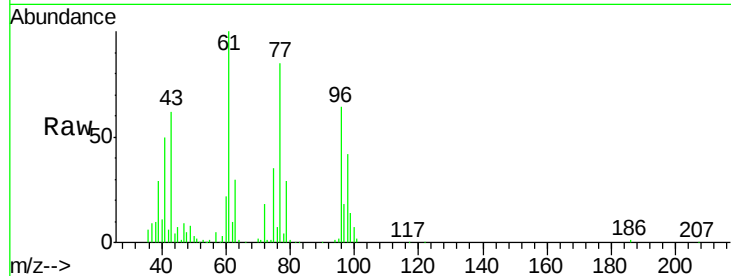
cis-1,2-Dichloroethene
 Concen: 20.021 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	151.5	0.0	292.8	
98	65.7	0.0	130.0	

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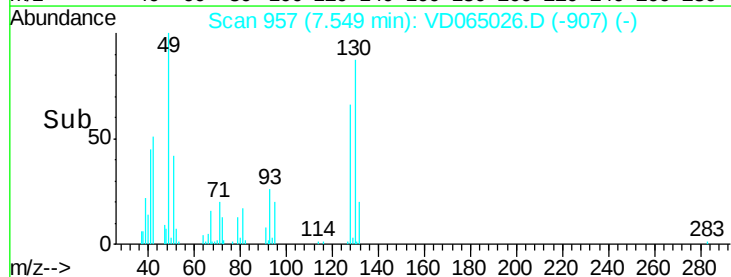
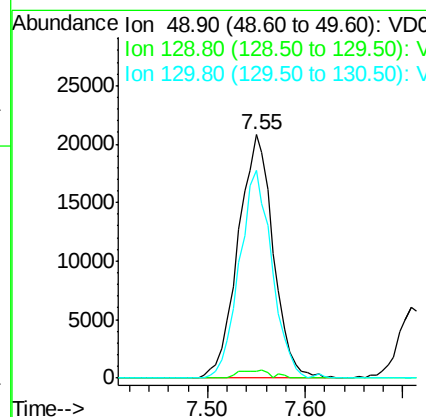
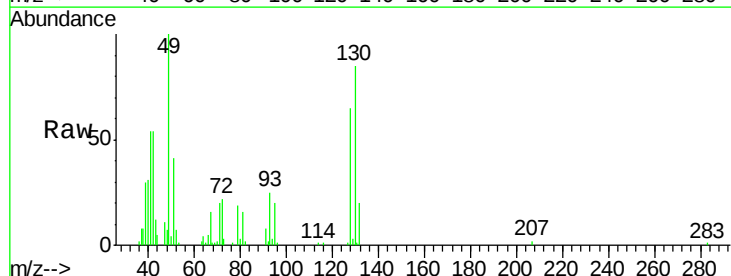
MMDadoda
 2/3/2020 10:52:23 AM

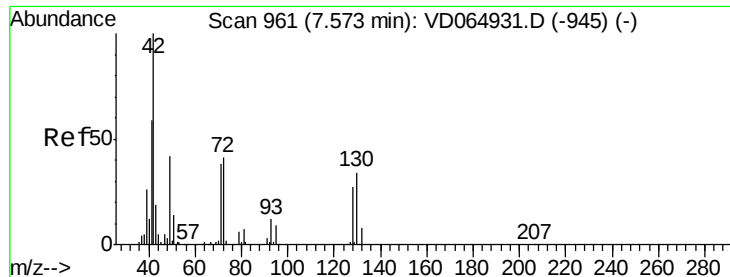


#28

Bromochloromethane
 Concen: 16.133 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. -0.01 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.5	0.0	4.4	
130	79.4	63.8	95.8	





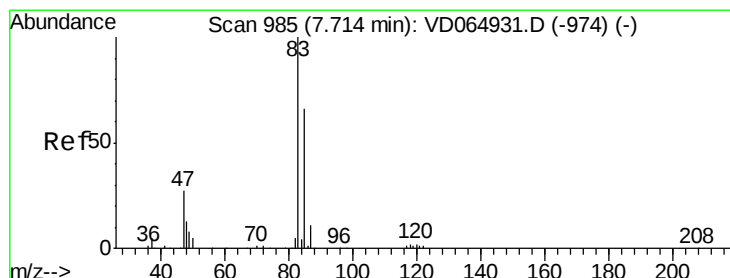
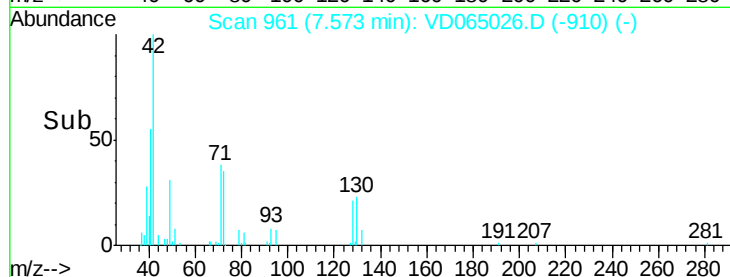
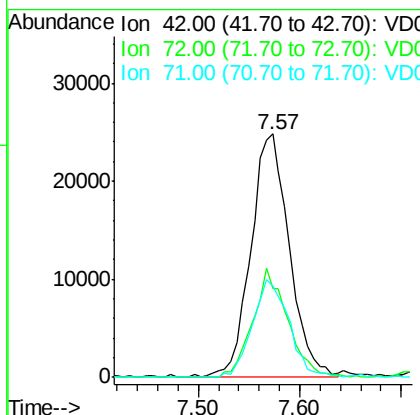
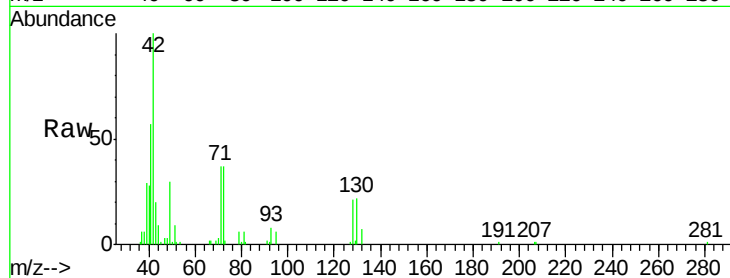
#29
Tetrahydrofuran
Concen: 86.243 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	34.0	51.0
71	37.8	31.5	47.3

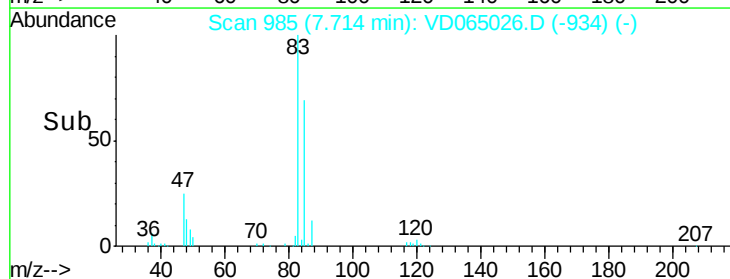
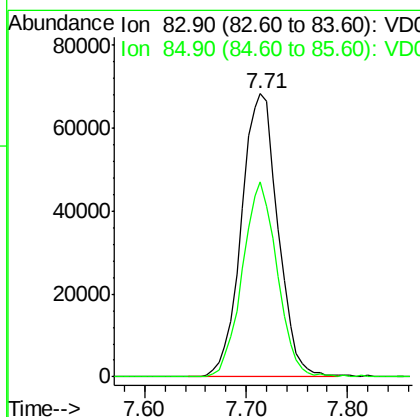
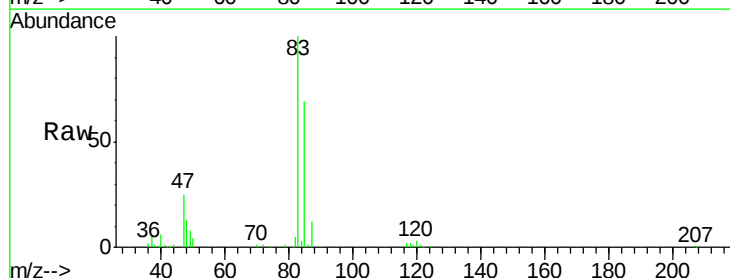
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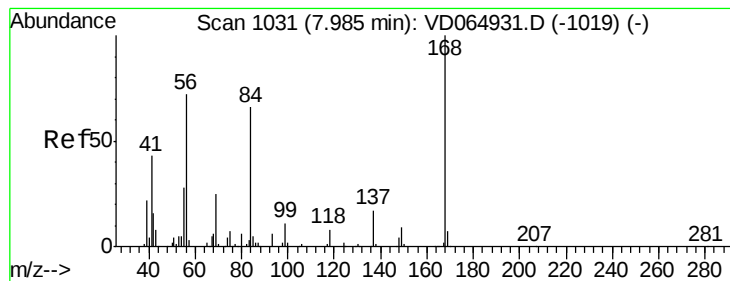
MMDadoda
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#30
Chloroform
Concen: 20.416 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.1	52.4	78.6





#31

Cyclohexane

Concen: 20.182 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 56 Resp: 160312

Ion Ratio Lower Upper

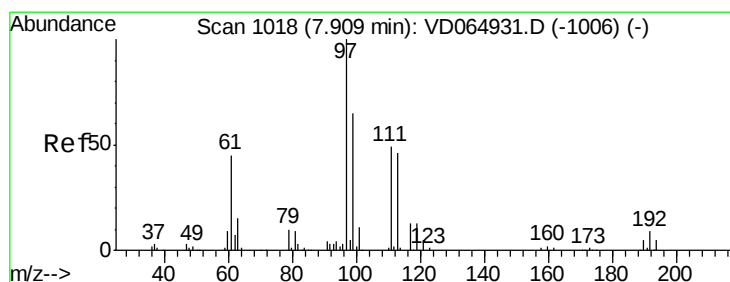
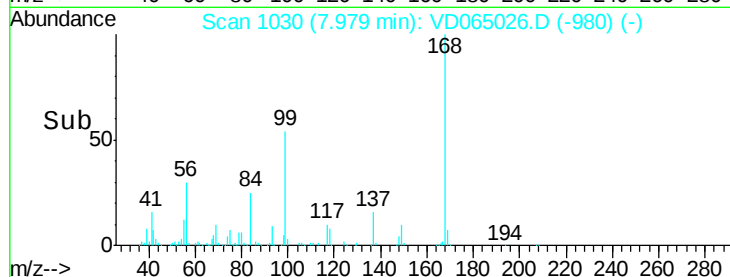
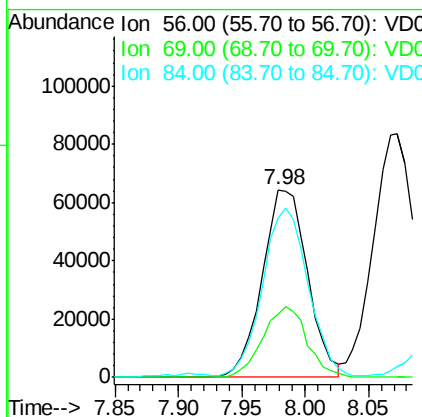
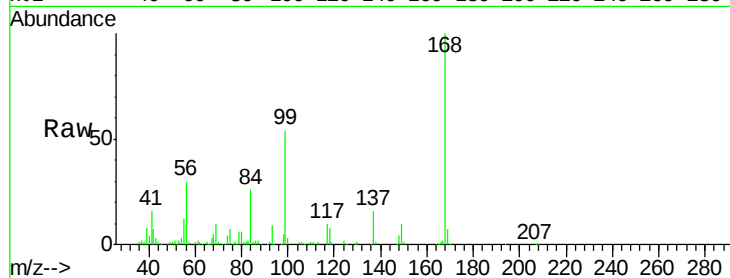
56 100

69 33.4 27.9 41.9

84 82.9 72.8 109.2

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#32

1,1,1-Trichloroethane

Concen: 20.680 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

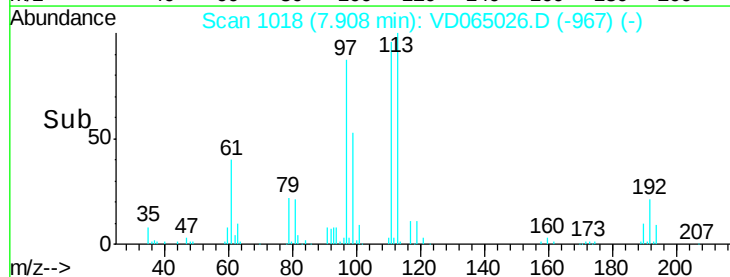
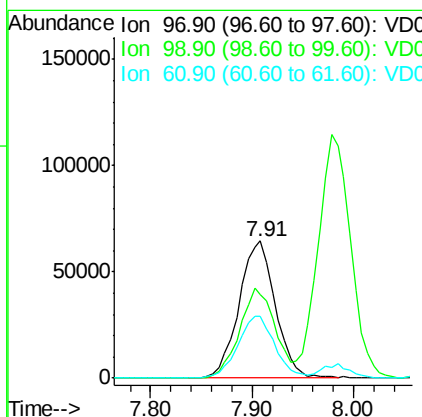
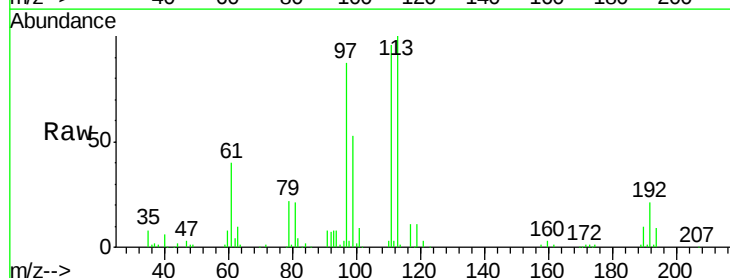
Tgt Ion: 97 Resp: 160584

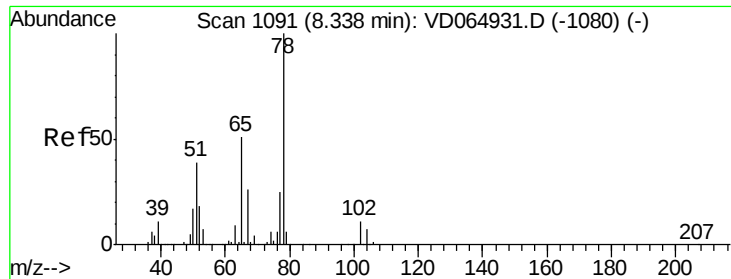
Ion Ratio Lower Upper

97 100

99 63.4 50.6 76.0

61 46.0 35.7 53.5





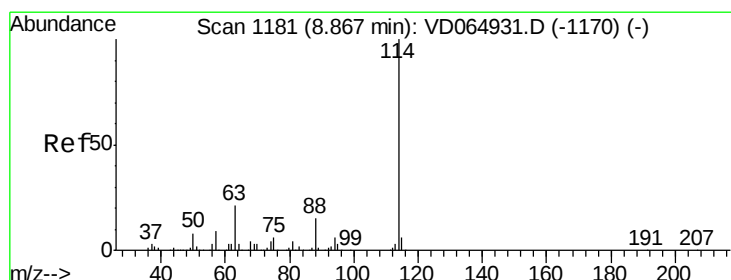
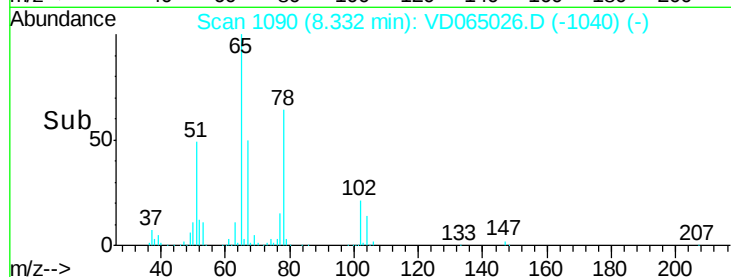
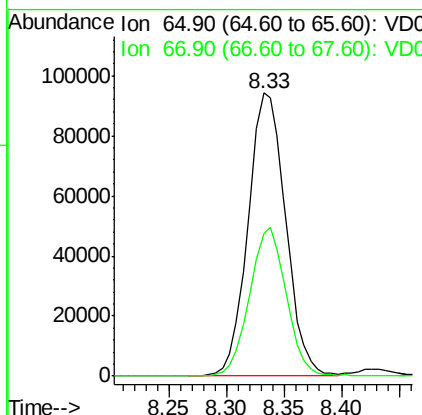
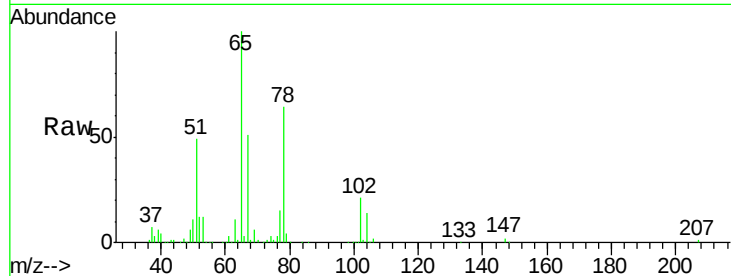
#33
 1,2-Dichloroethane-d4
 Concen: 46.928 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	213960		
67	51.5	0.0	103.6	

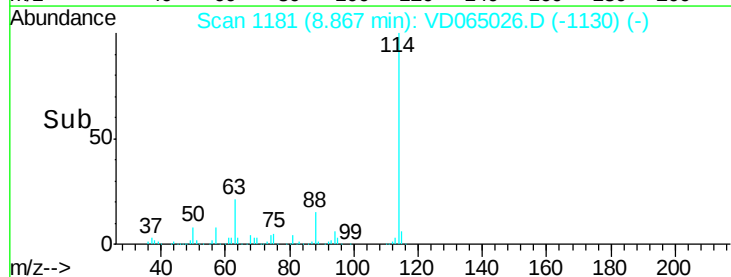
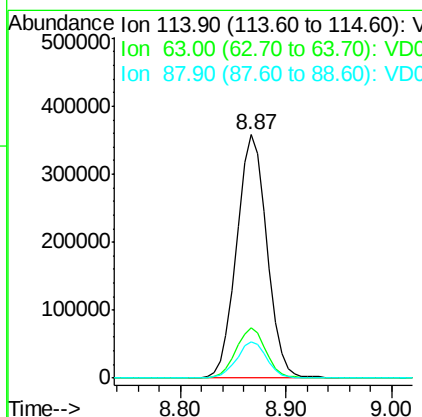
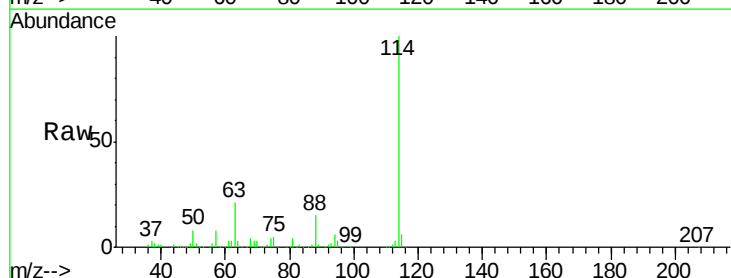
Manual Integrations
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	712252		
63	20.6	0.0	42.0	
88	15.1	0.0	29.4	





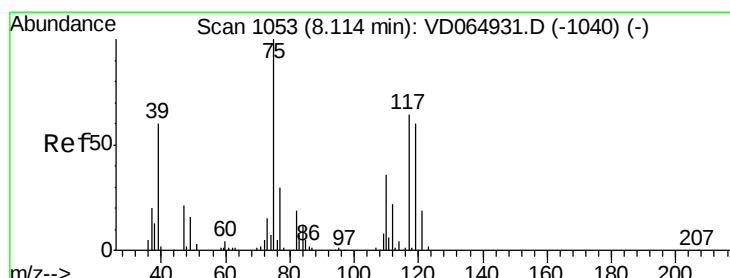
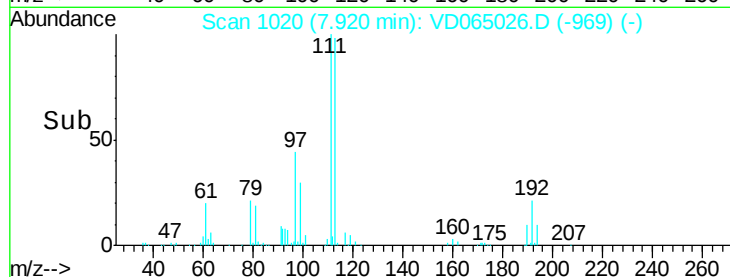
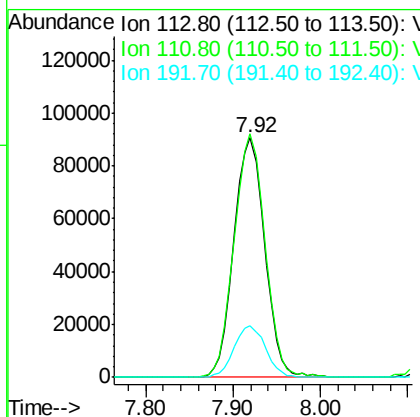
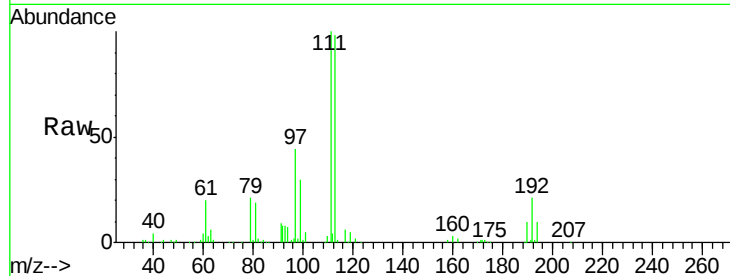
#35
Dibromofluoromethane
Concen: 48.613 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	217586		
111	101.4	82.4	123.6	
192	21.7	16.9	25.3	

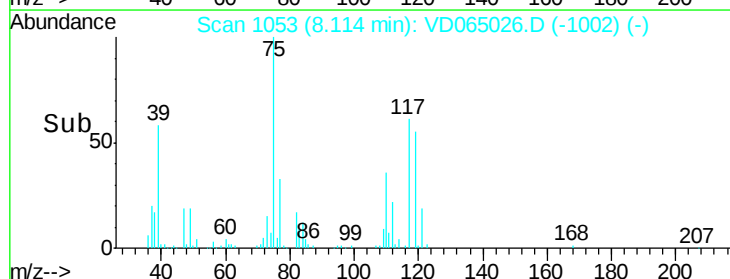
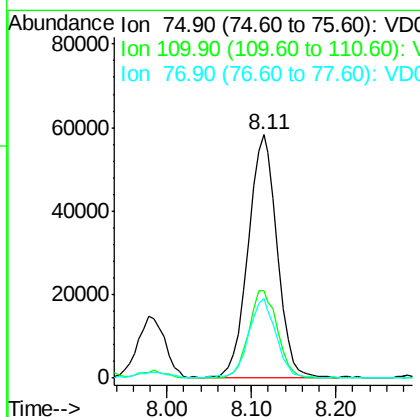
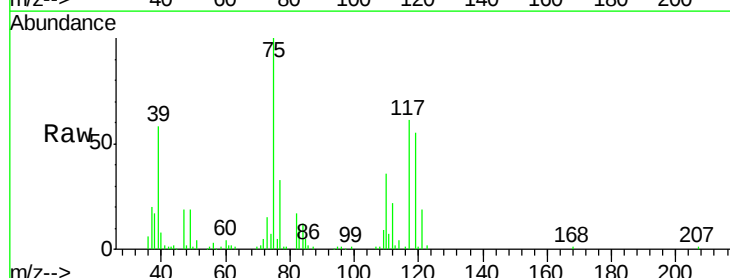
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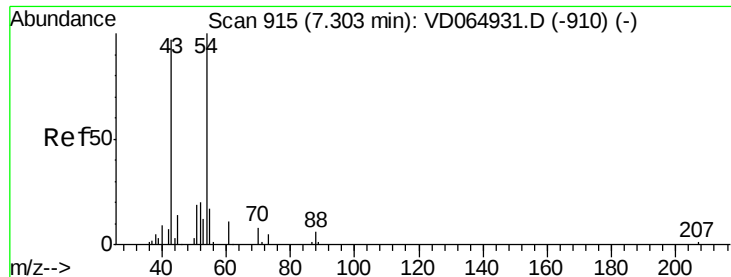
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#36
1,1-Dichloropropene
Concen: 20.350 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	139767		
110	35.4	17.3	52.0	
77	31.1	24.7	37.1	





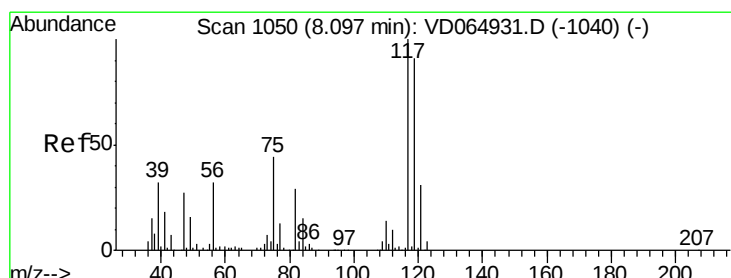
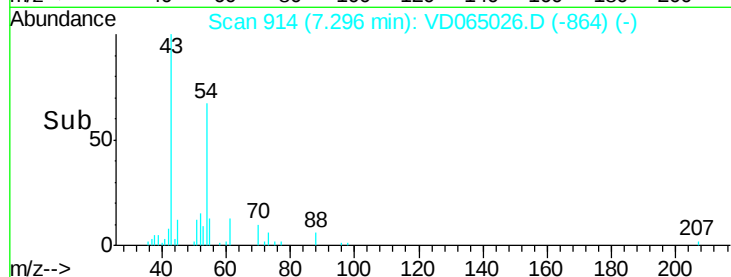
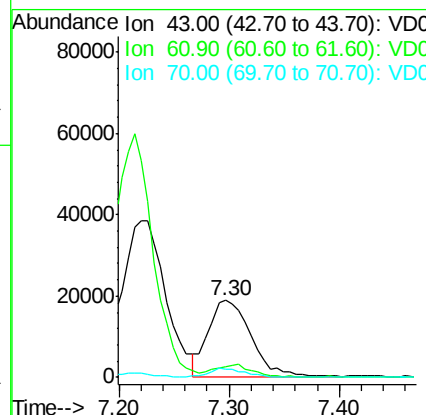
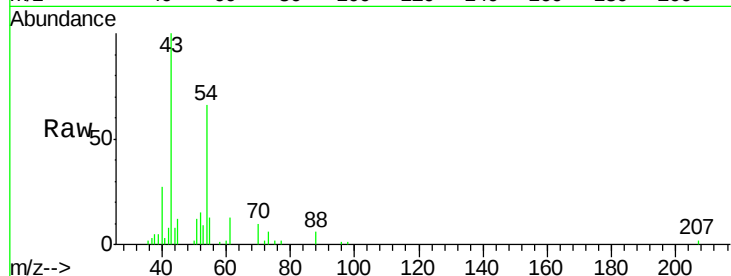
#37
Ethyl Acetate
Concen: 17.730 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.0	16.4
70	10.0	7.5	11.3

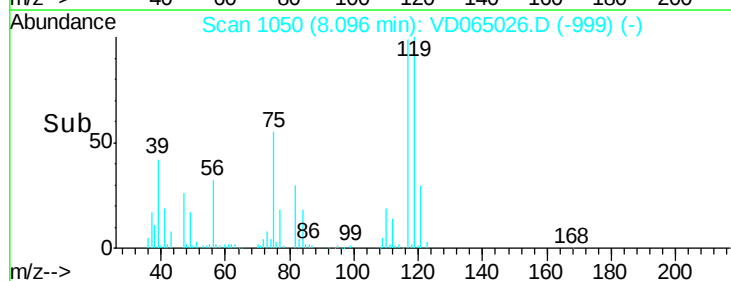
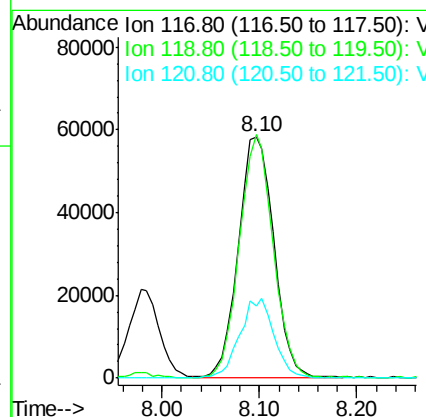
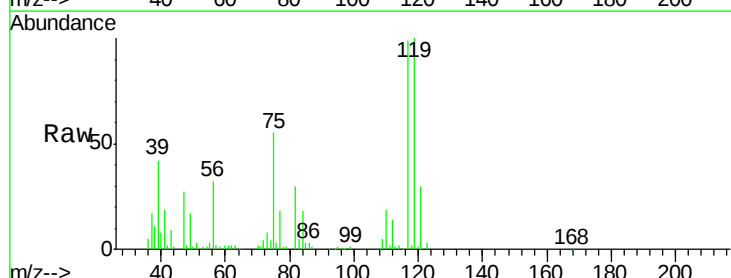
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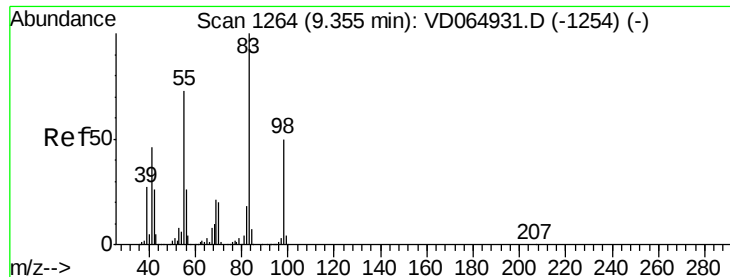
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#38
Carbon Tetrachloride
Concen: 20.561 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.8	73.2	109.8
121	30.0	24.4	36.6





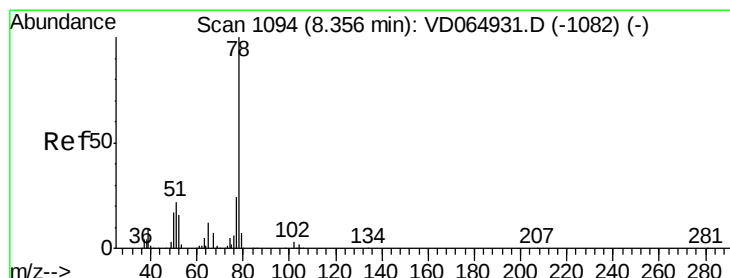
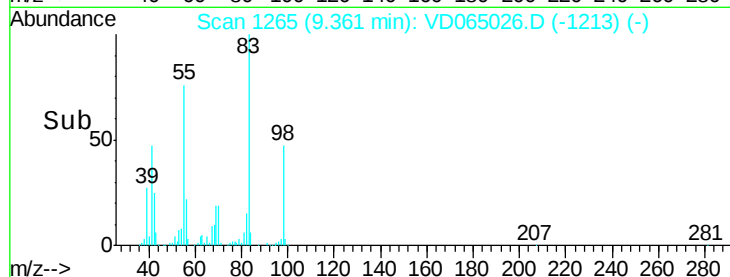
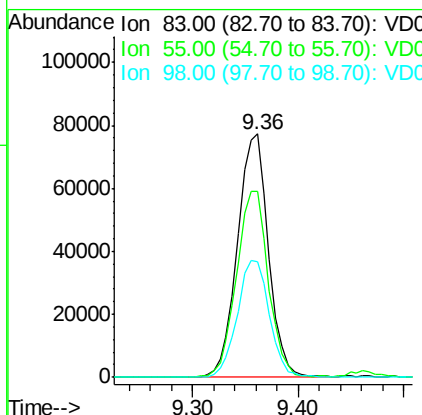
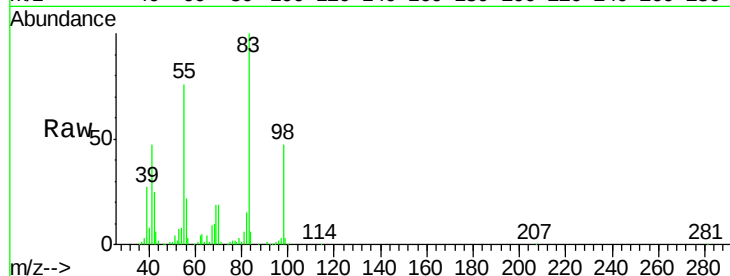
#39
Methvlcvclohexane
Concen: 19.588 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.3	58.7	88.1
98	47.3	40.2	60.2

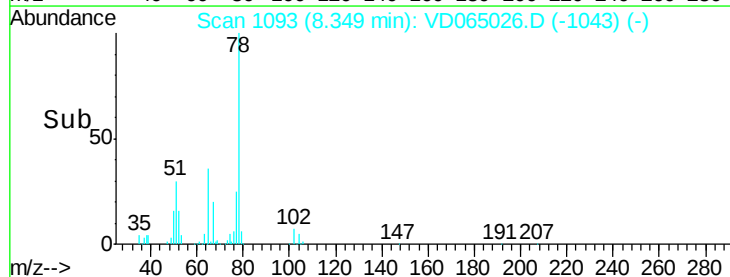
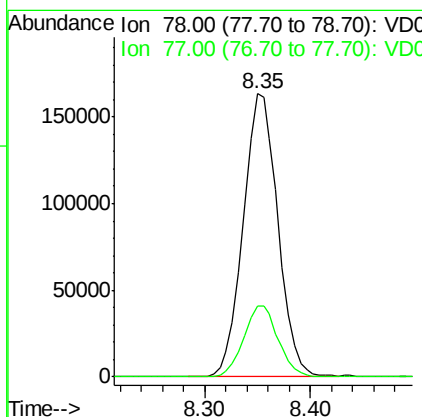
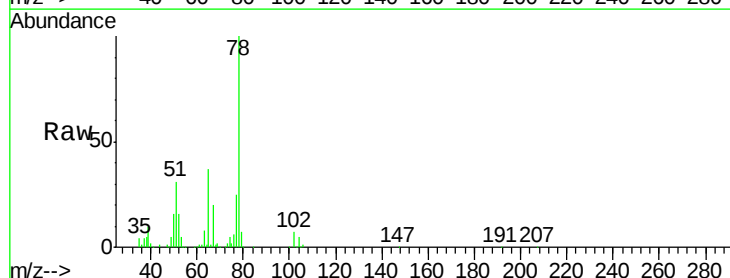
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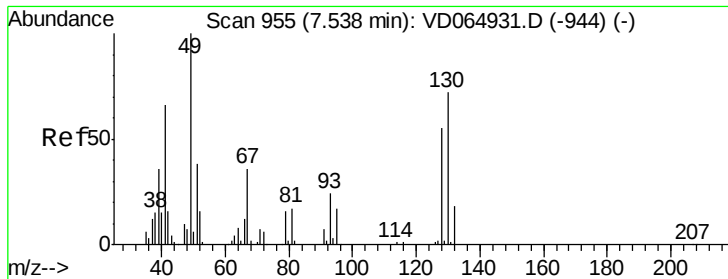
MMDadoda
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#40
Benzene
Concen: 19.689 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.2	28.8





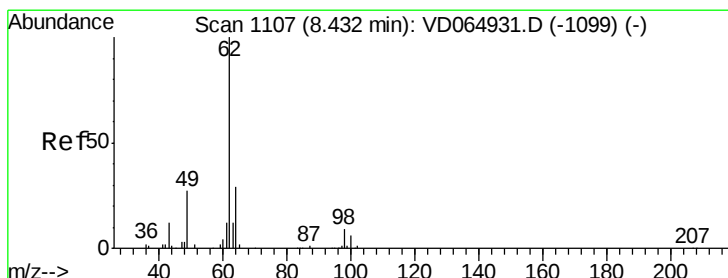
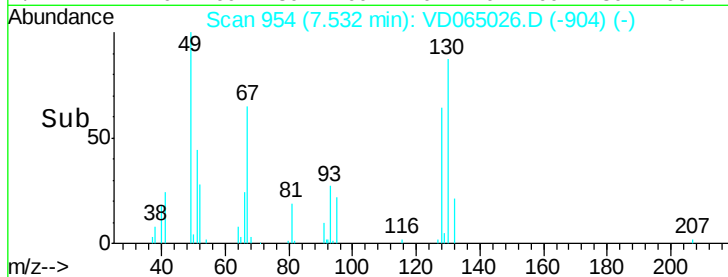
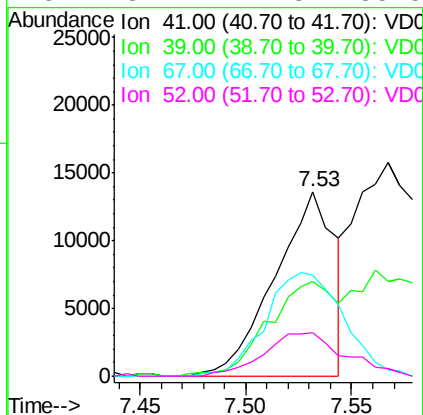
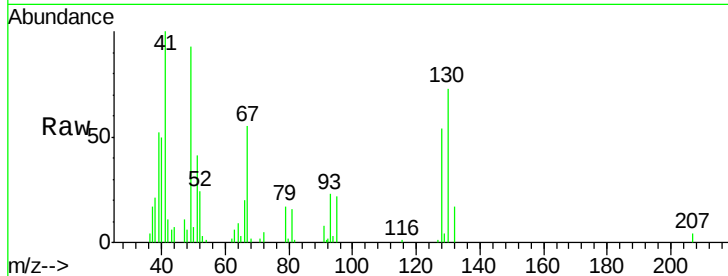
#41
Methacrylonitrile
Concen: 17.568 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion:	41	Resp:	26848
Ion	Ratio	Lower	Upper
41	100		
39	57.6	49.3	73.9
67	73.2	51.0	76.6
52	31.7	22.3	33.5

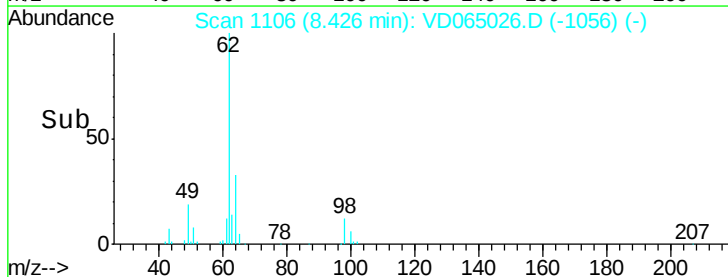
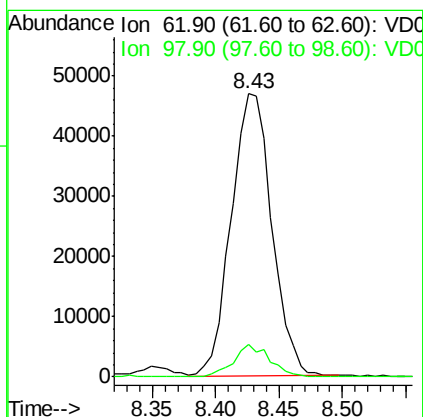
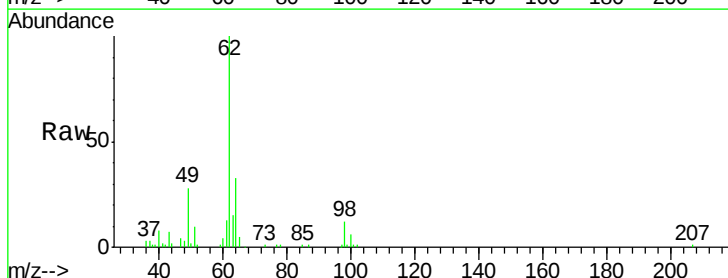
Manual Integrations
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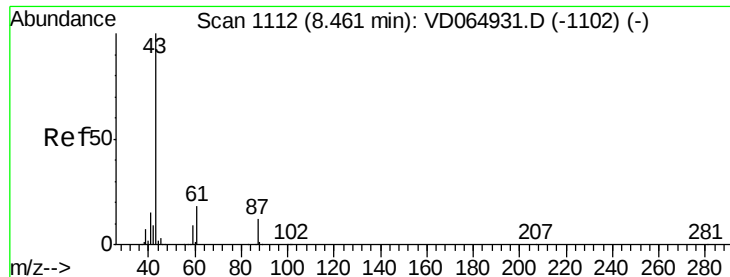
MMDadoda
2/3/2020 10:52:23 AM



#42
1,2-Dichloroethane
Concen: 18.510 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion:	62	Resp:	104297
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	17.8





#43

Isopropyl Acetate

Concen: 17.167 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

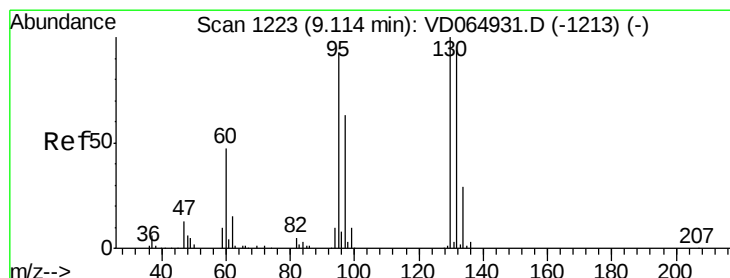
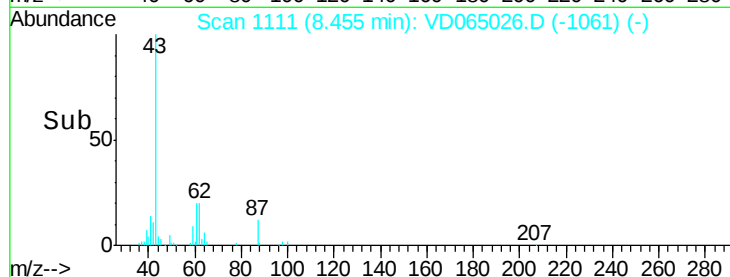
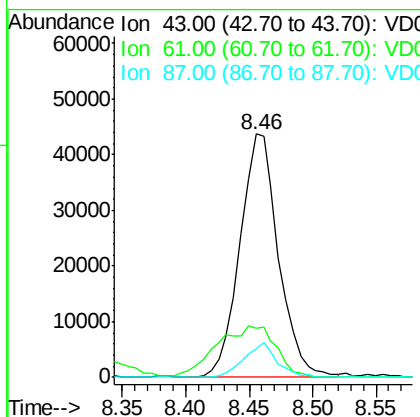
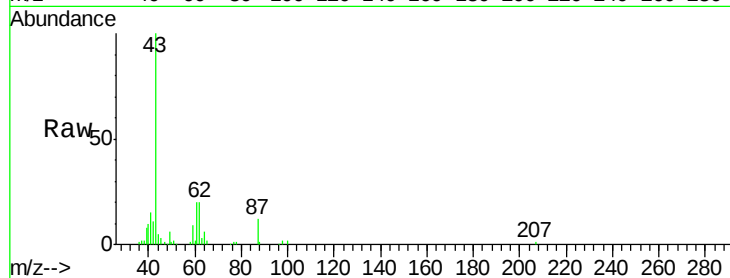
ClientSampleId :

VD0131SBS01

Tot Ion:	43	Resp:	92513
Ion	Ratio	Lower	Upper
43	100		
61	32.6	23.8	35.6
87	12.2	10.3	15.5

Manual Integrations
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#44

Trichloroethene

Concen: 20.225 ug/l

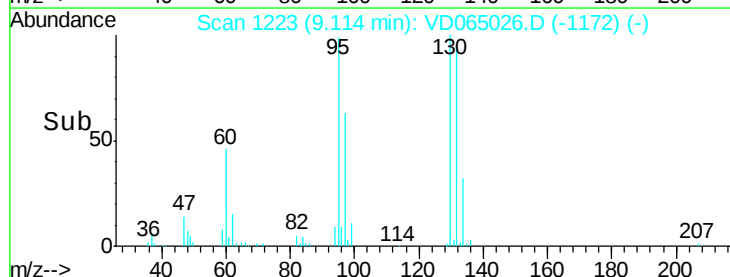
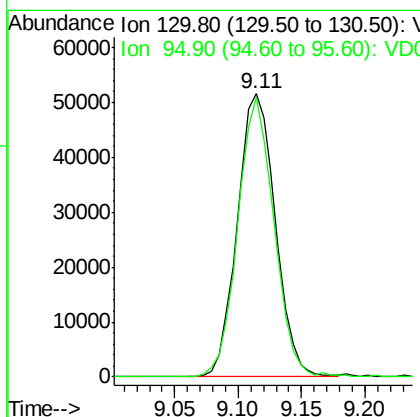
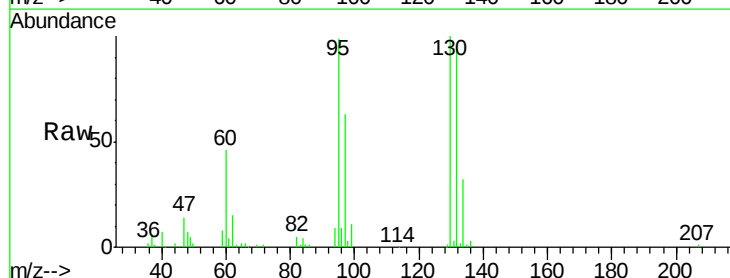
RT: 9.11 min Scan# 1223

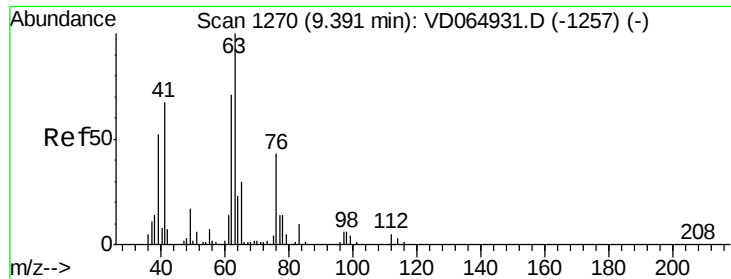
Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	130	Resp:	107068
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	185.8





#45

1,2-Dichloropropane

Concen: 19.837 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 63 Resp: 90964

Ion Ratio Lower Upper

63 100

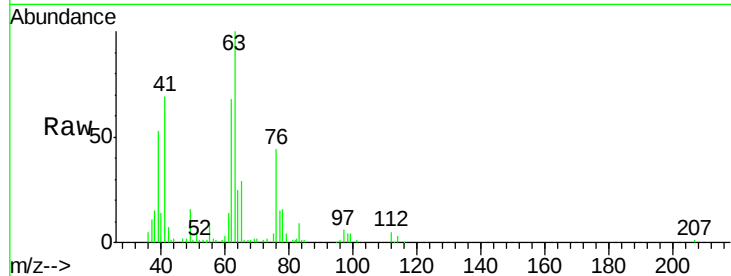
65 28.6 24.3 36.5

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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

9.39

40000

30000

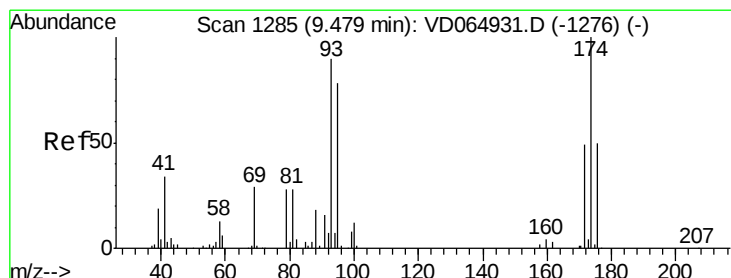
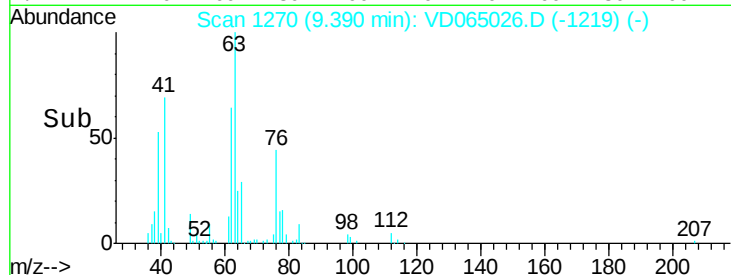
20000

10000

0

9.30 9.40 9.50

Time-->



#46

Dibromomethane

Concen: 18.844 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

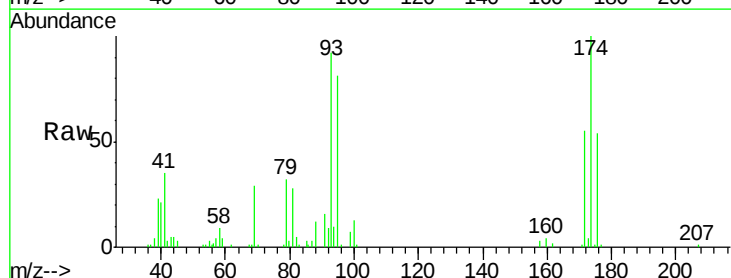
Tgt Ion: 93 Resp: 47176

Ion Ratio Lower Upper

93 100

95 81.5 67.5 101.3

174 108.2 88.4 132.6



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

9.48

30000

25000

20000

15000

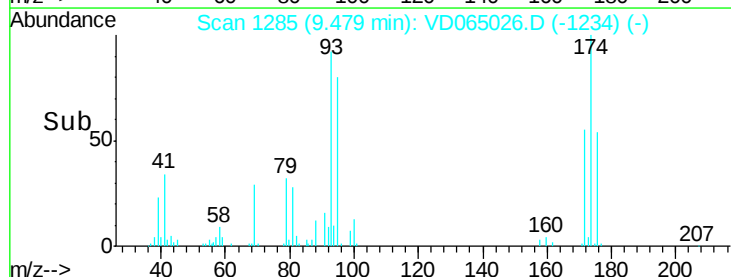
10000

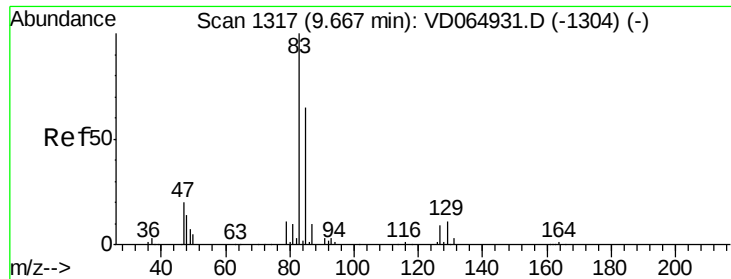
5000

0

9.40 9.45 9.50 9.55

Time-->





#47

Bromodichloromethane

Concen: 19.954 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

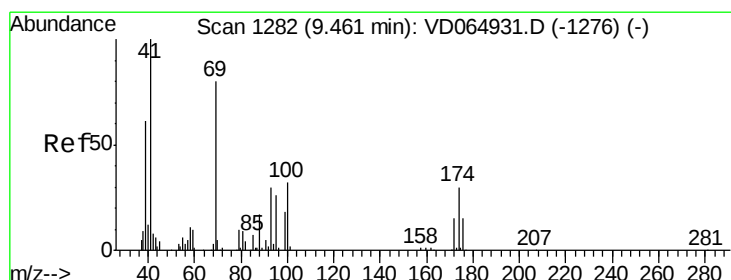
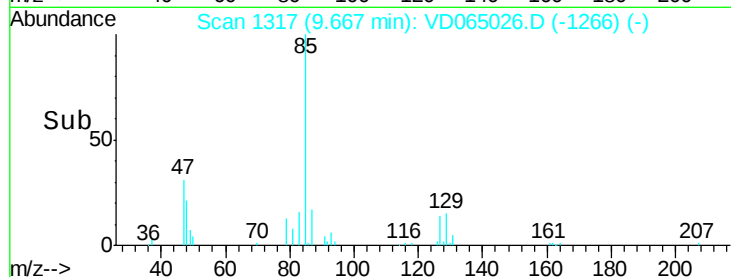
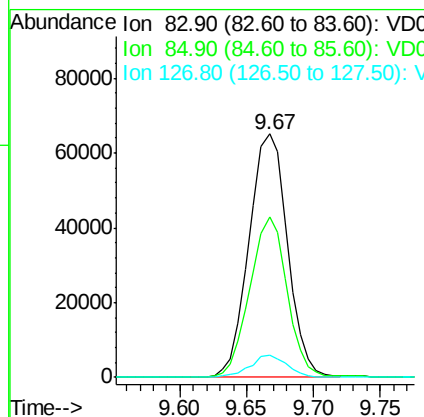
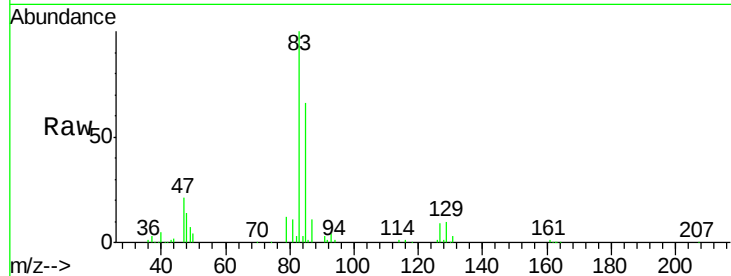
ClientSampleId :

VD0131SBS01

Tot Ion:	83	Resp:	129991
Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.0	78.0
127	9.0	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.717 ug/l

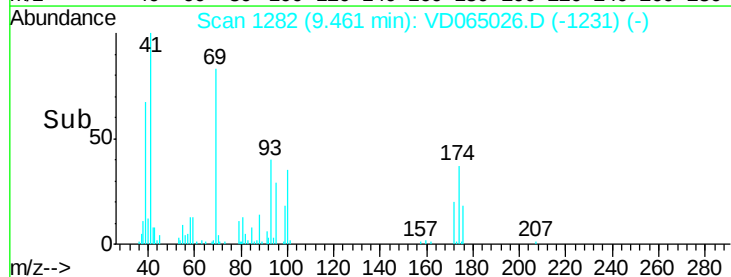
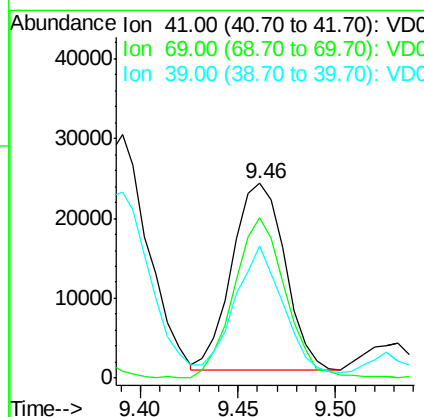
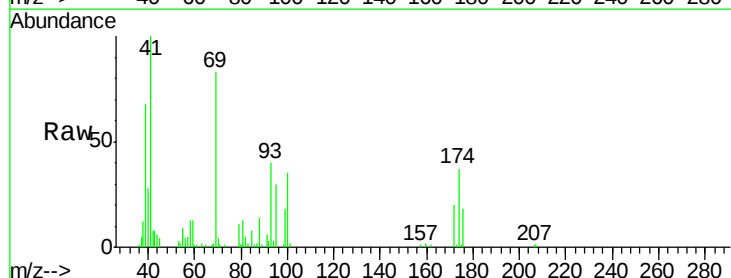
RT: 9.46 min Scan# 1282

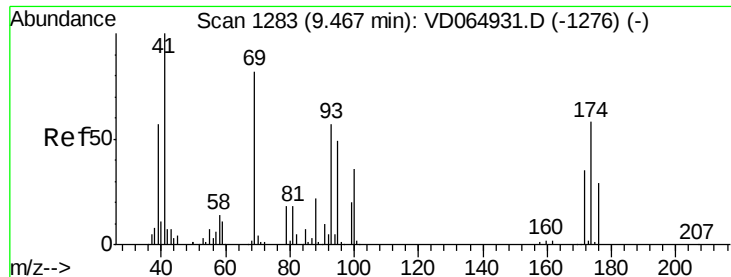
Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	41	Resp:	43936
Ion	Ratio	Lower	Upper
41	100		
69	83.9	65.8	98.8
39	66.7	49.4	74.0





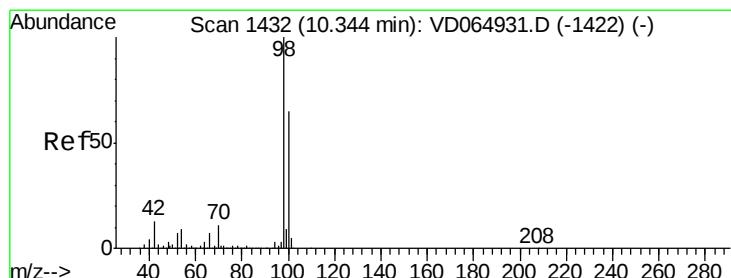
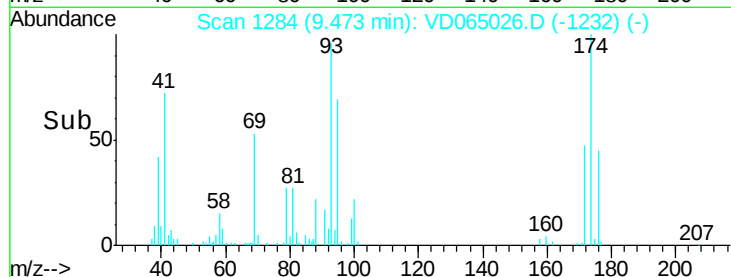
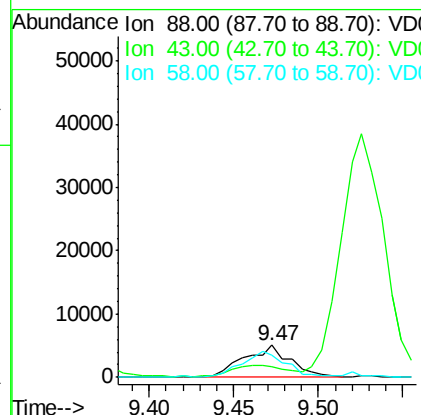
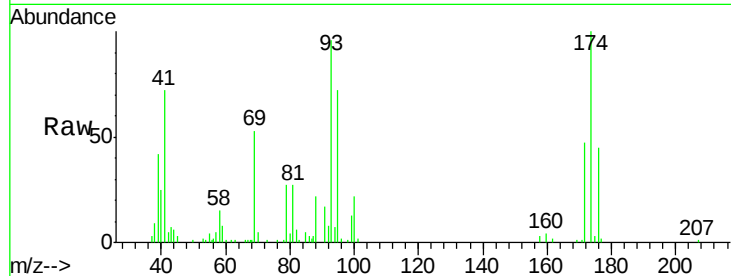
#49
1,4-Dioxane
Concen: 328.181 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion: 88 Resp: 9529
Ion Ratio Lower Upper
88 100
43 48.0 26.2 39.4#
58 76.5 50.3 75.5#

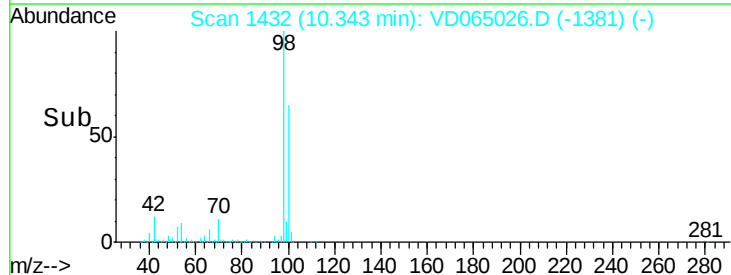
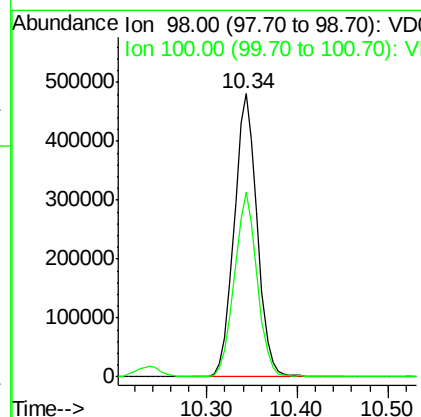
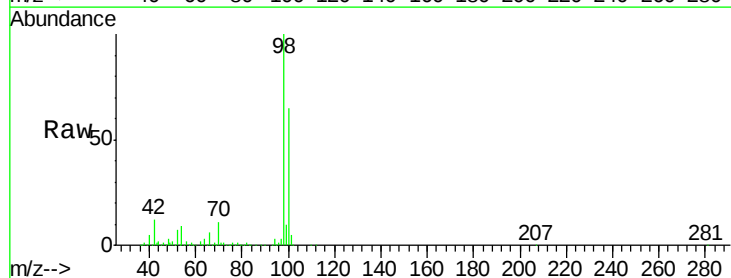
Manual Integrations
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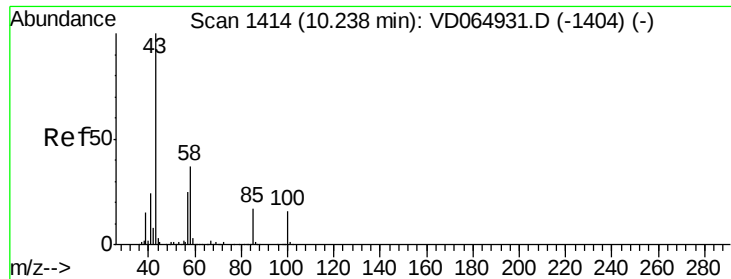
MMDadoda
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#50
Toluene-d8
Concen: 49.213 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion: 98 Resp: 850171
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 86.143 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 43 Resp: 232275

Ion Ratio Lower Upper

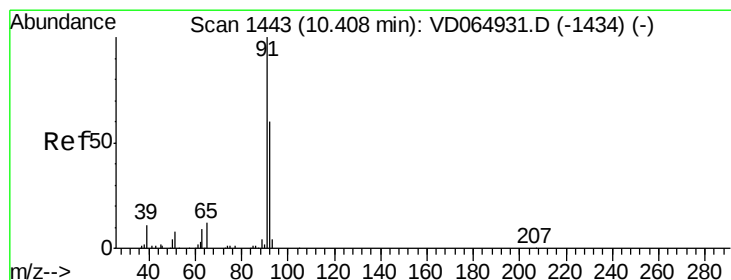
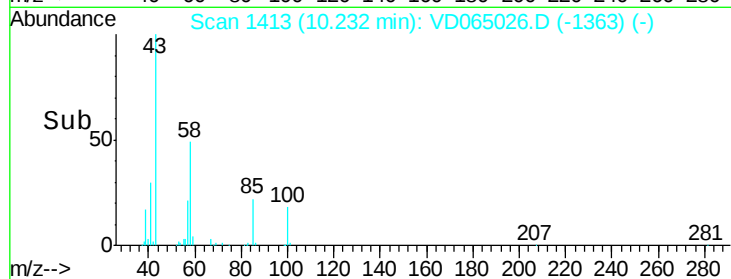
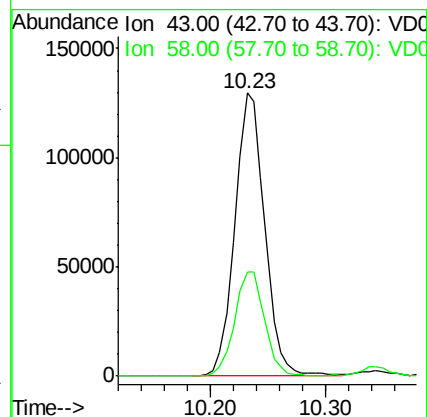
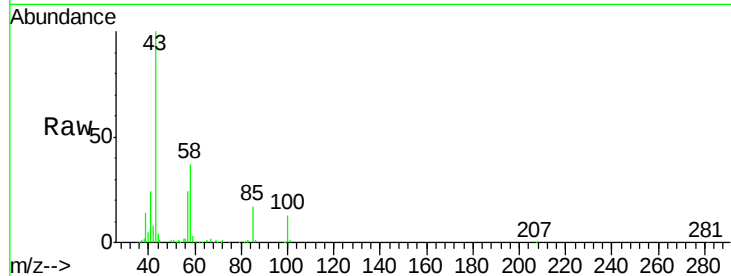
43 100

58 37.0 30.4 45.6

Manual Integrations
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#52

Toluene

Concen: 19.807 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065026.D

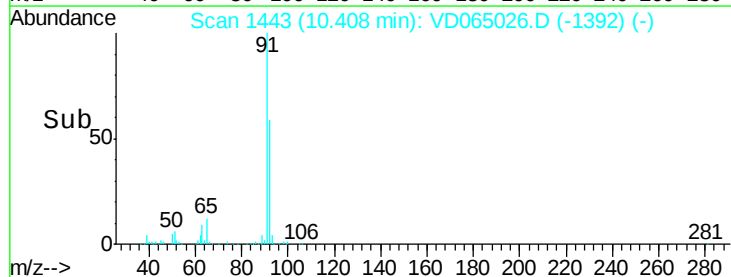
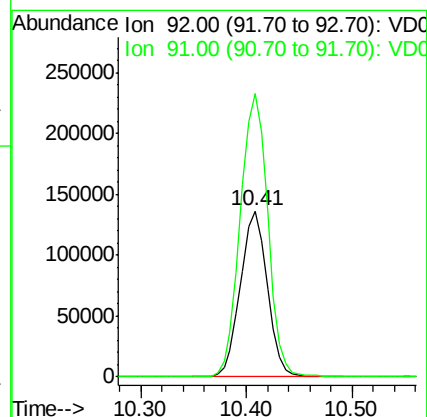
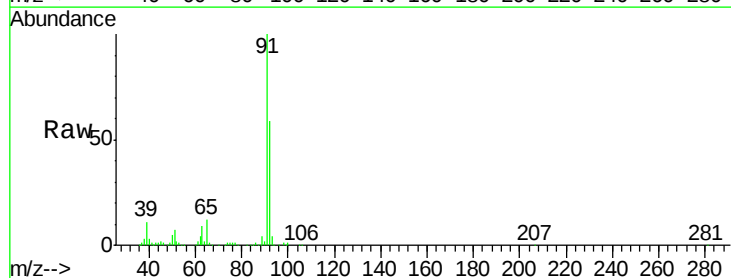
Acq: 31 Jan 2020 11:33

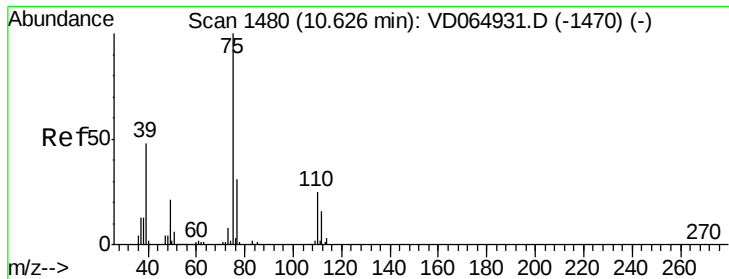
Tgt Ion: 92 Resp: 241558

Ion Ratio Lower Upper

92 100

91 173.8 136.8 205.2





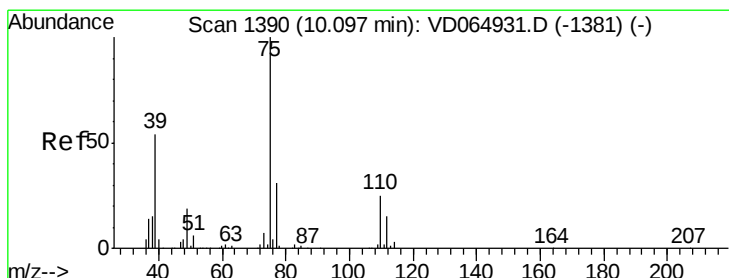
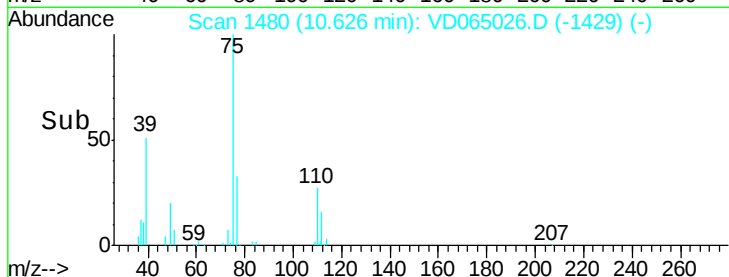
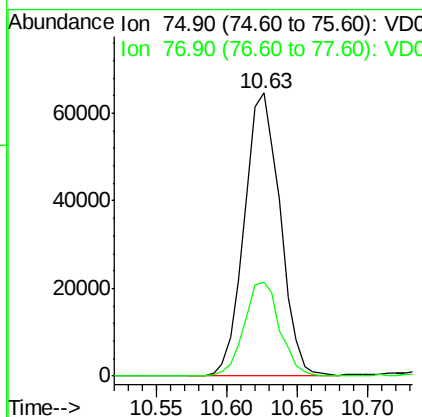
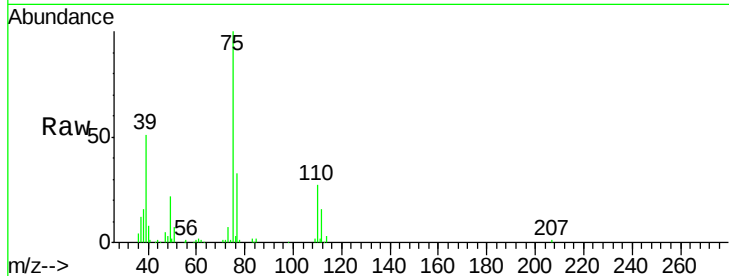
#53
t-1,3-Dichloropropene
Concen: 18.602 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	75	Resp	115430
Ion Ratio	Lower	Upper	
75	100		
77	33.0	25.0	37.6

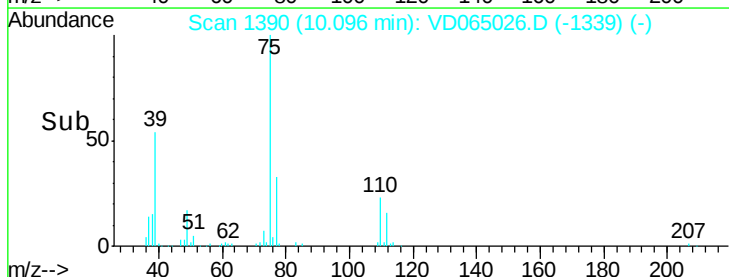
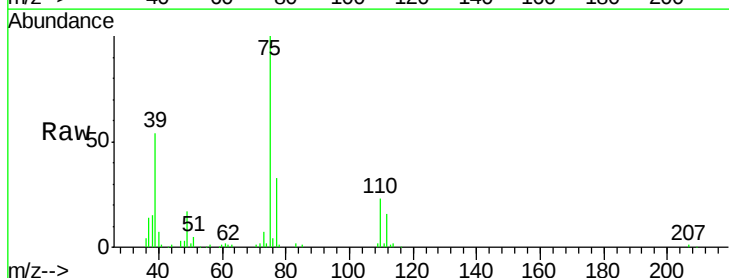
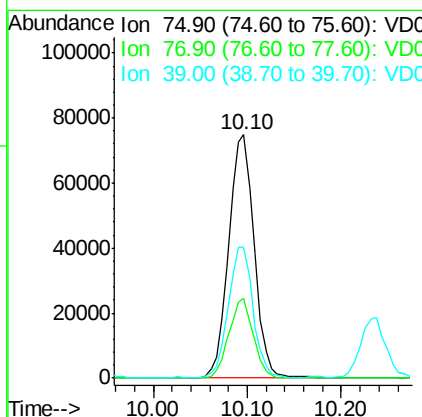
Manual Integrations
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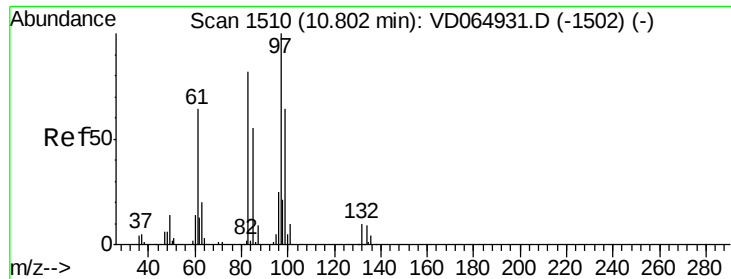
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.369 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	75	Resp	140725
Ion Ratio	Lower	Upper	
75	100		
77	32.9	25.1	37.7
39	53.4	43.0	64.6





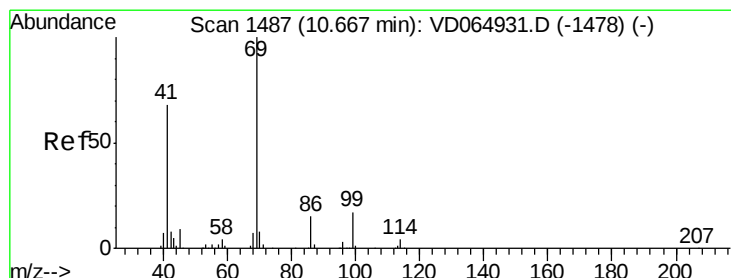
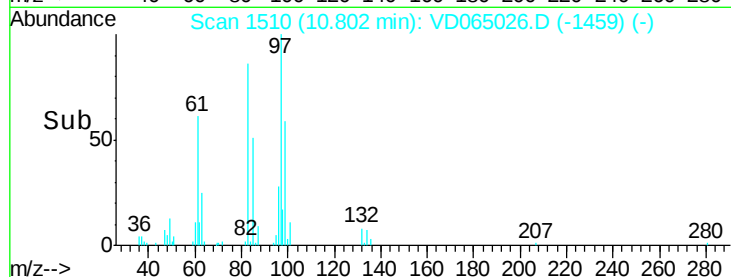
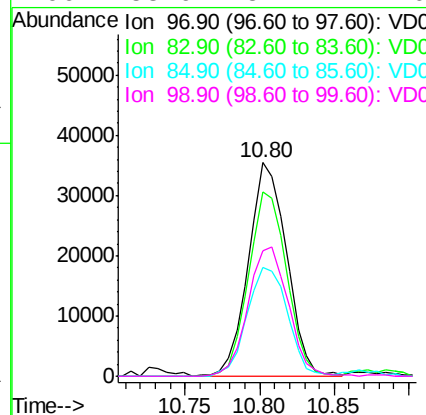
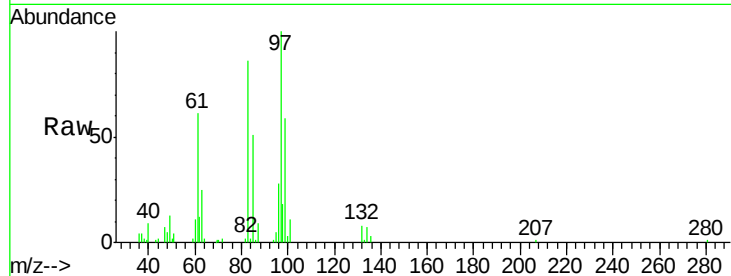
#55
 1,1,2-Trichloroethane
 Concen: 18.716 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		63115		
83	86.3	66.0	99.0		
85	51.1	44.4	66.6		
99	58.9	51.4	77.0		

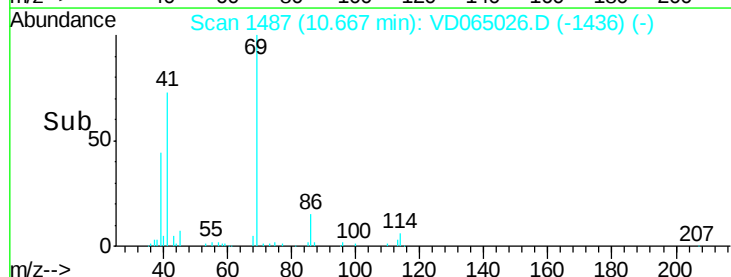
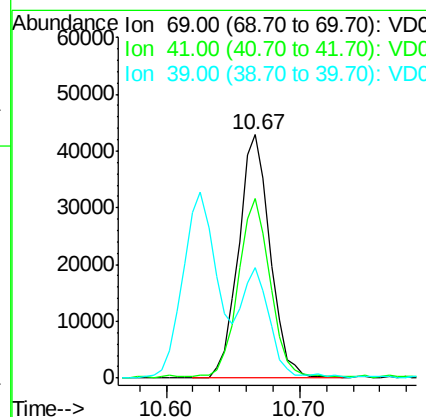
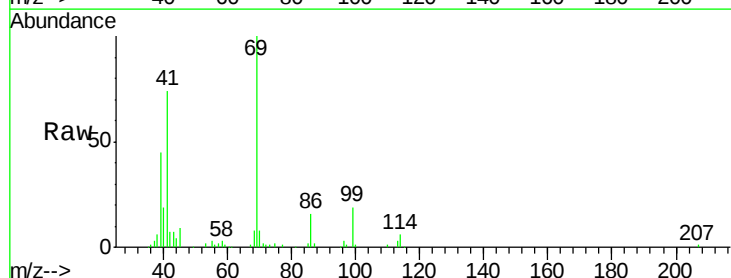
Manual Integrations
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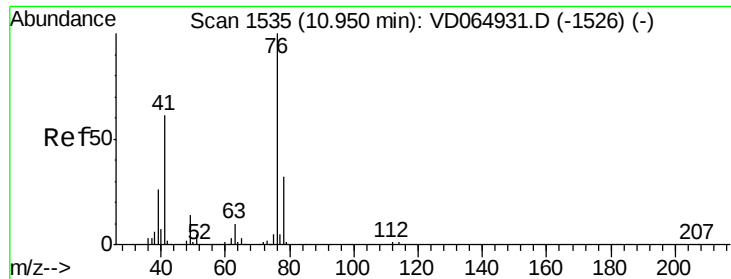
MMDadoda
 2/3/2020 10:52:23 AM



#56
 Ethyl methacrylate
 Concen: 17.456 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		70394		
41	73.5	56.4	84.6		
39	38.0	30.6	46.0		





#57

1,3-Dichloropropane

Concen: 18.917 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 76 Resp: 109414

Ion Ratio Lower Upper

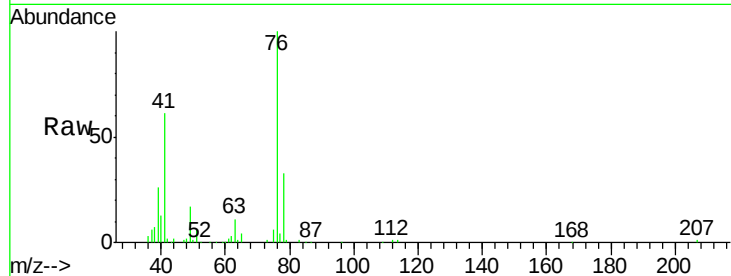
76 100

78 32.2 25.7 38.5

Manual Integrations
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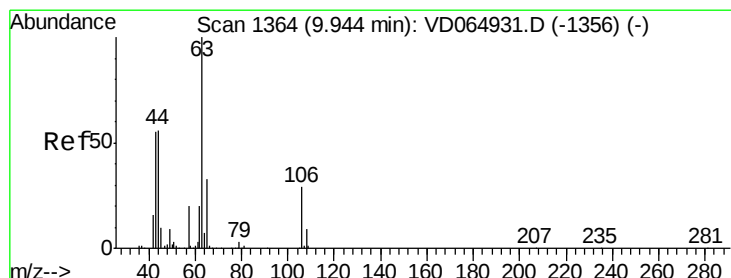
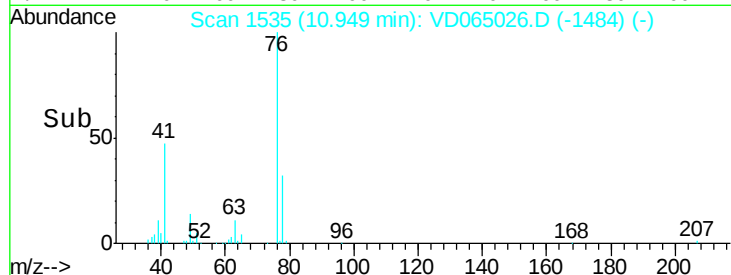
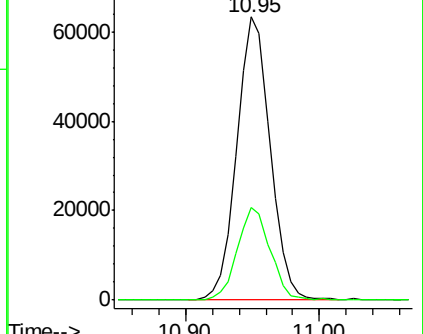
MMDadoda

2/3/2020 10:52:23 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 84.868 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD065026.D

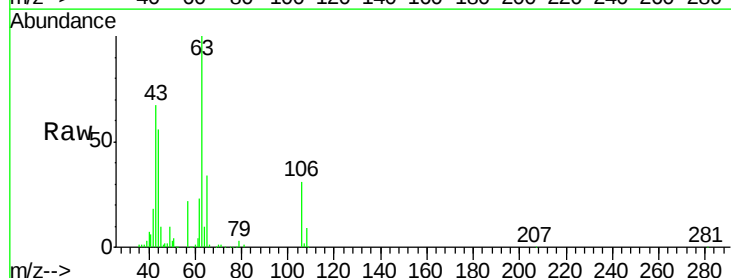
Acq: 31 Jan 2020 11:33

Tgt Ion: 63 Resp: 113701

Ion Ratio Lower Upper

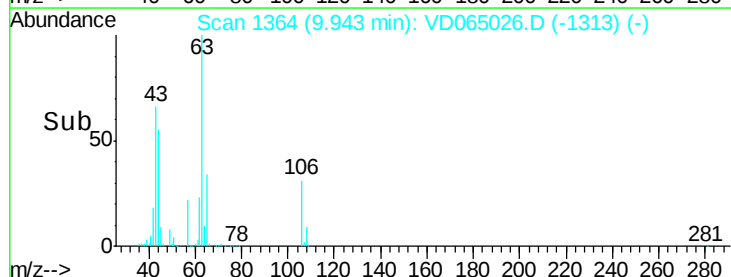
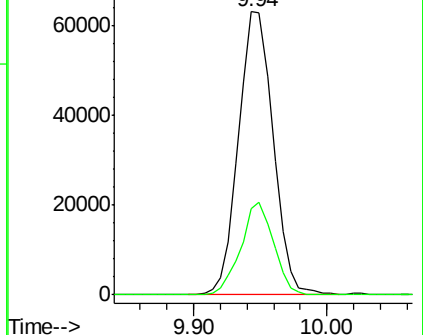
63 100

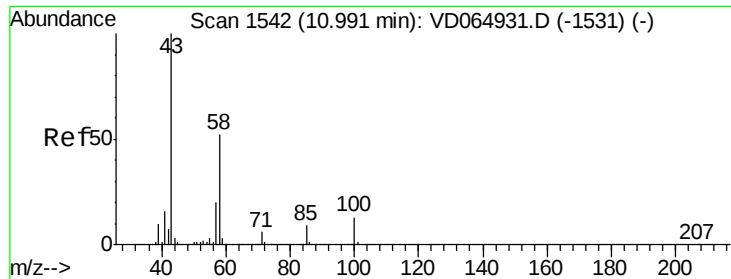
106 30.5 23.0 34.4



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC





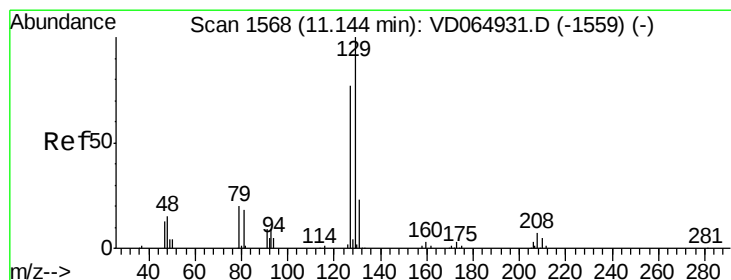
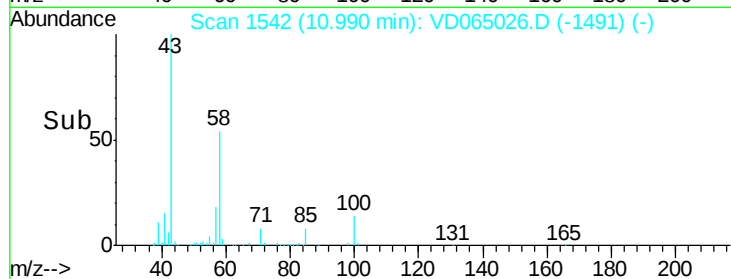
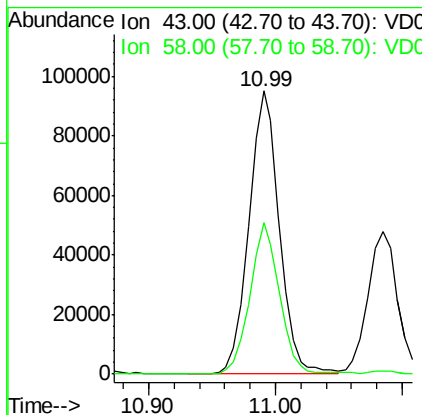
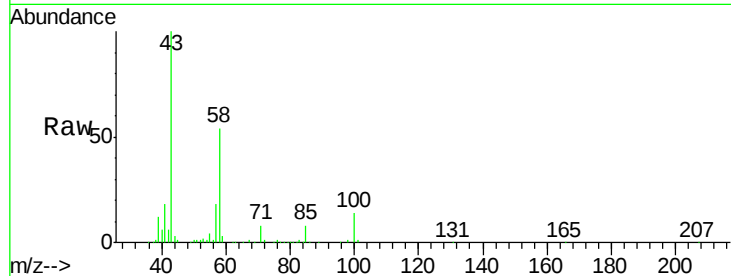
#59
2-Hexanone
Concen: 85.340 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion: 43 Resp: 158722
Ion Ratio Lower Upper
43 100
58 51.9 26.5 79.4

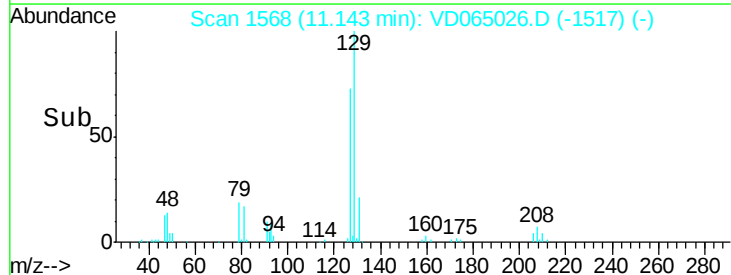
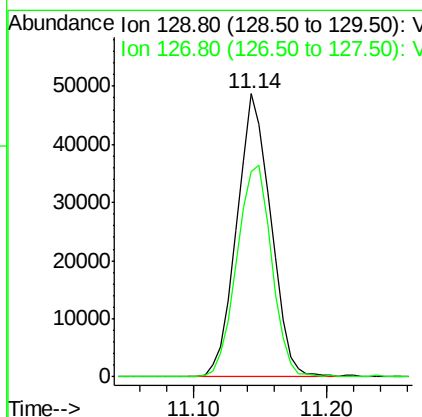
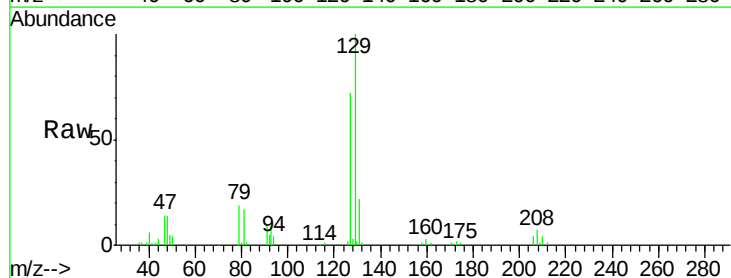
Manual Integrations
APPROVED

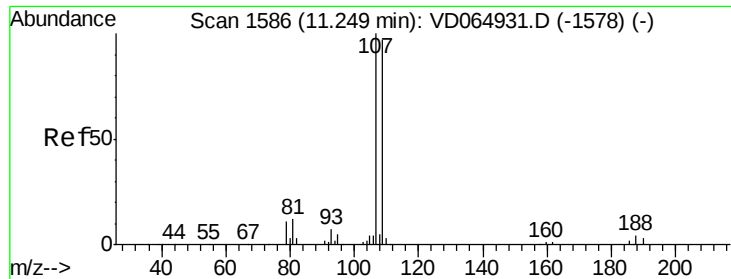
MMDadoda
2/3/2020 10:52:23 AM



#60
Dibromochloromethane
Concen: 19.072 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion: 129 Resp: 85962
Ion Ratio Lower Upper
129 100
127 76.6 38.2 114.6





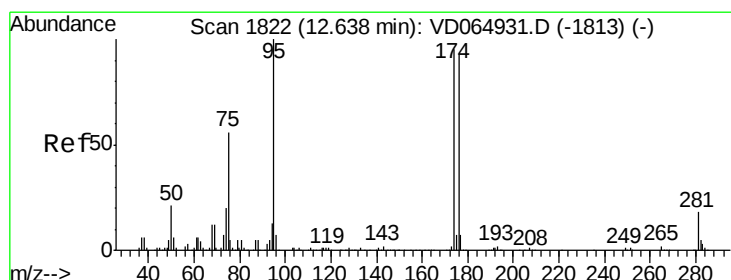
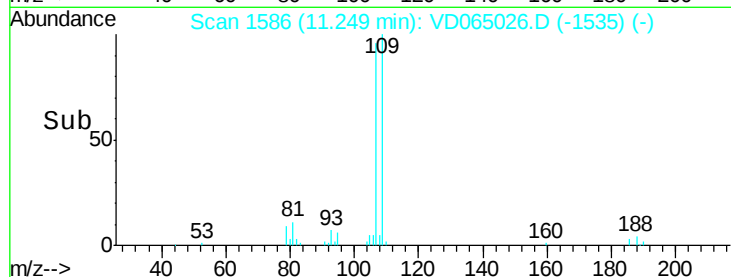
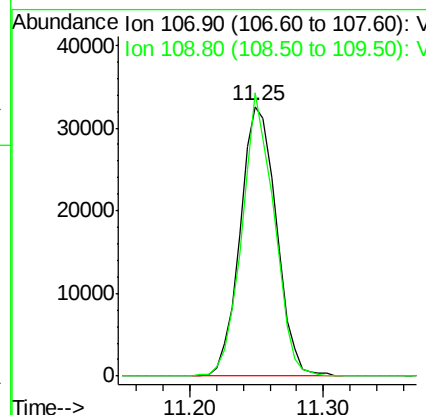
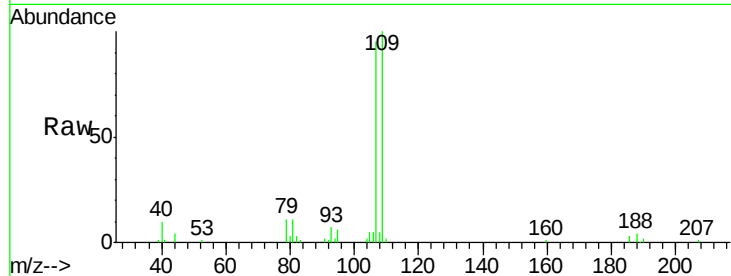
#61
1,2-Dibromoethane
Concen: 18.838 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.2	77.1	115.7

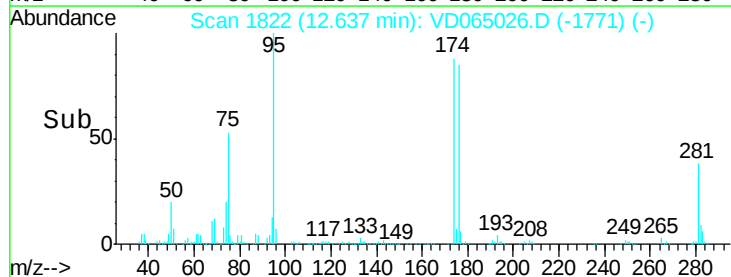
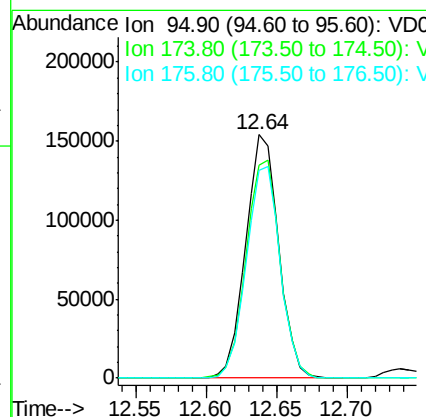
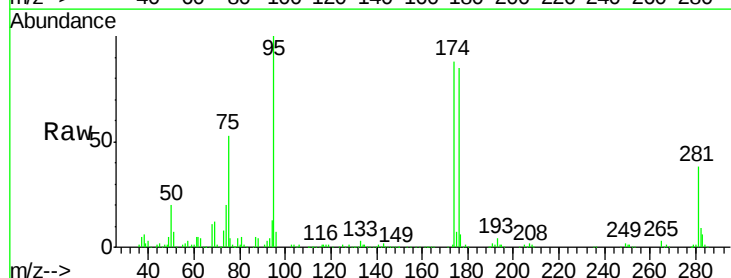
Manual Integrations
APPROVED

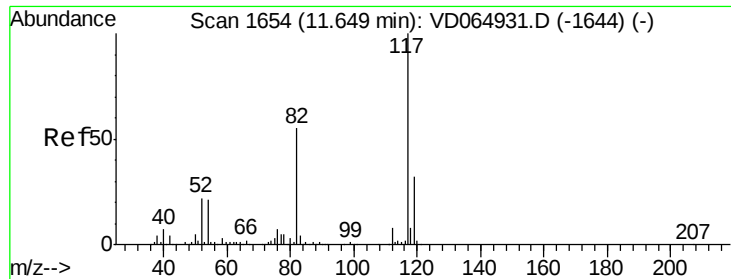
MMDadoda
2/3/2020 10:52:23 AM



#62
4-Bromofluorobenzene
Concen: 47.783 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	186.8
176	89.0	0.0	183.4





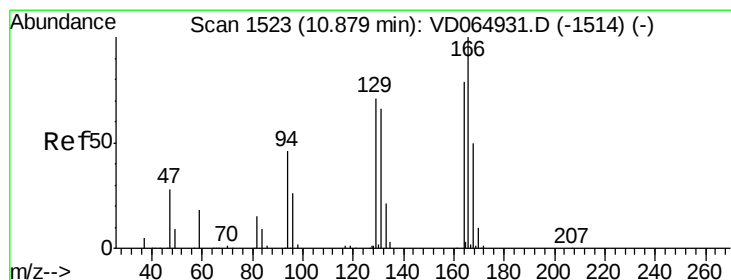
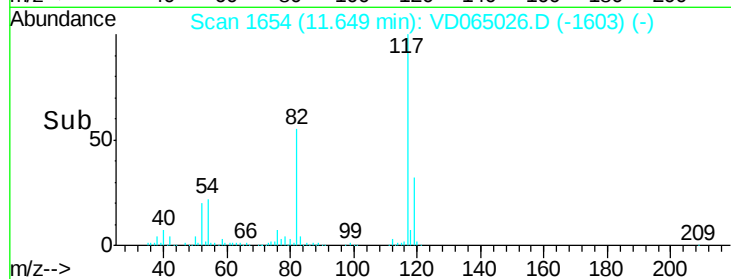
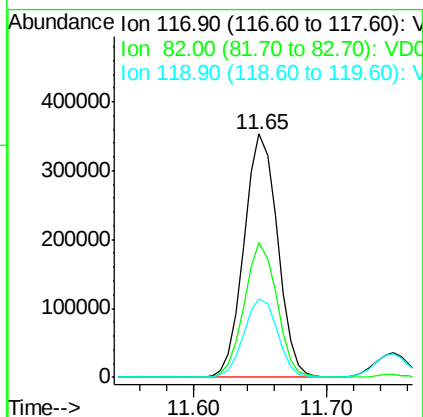
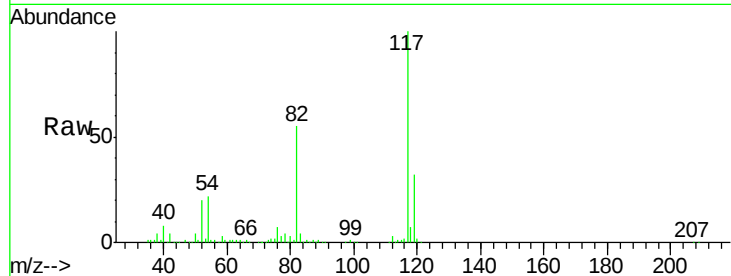
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	613856		
82	55.4	43.6	65.4	
119	32.4	25.2	37.8	

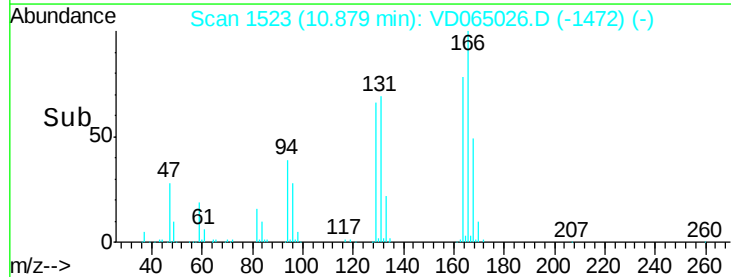
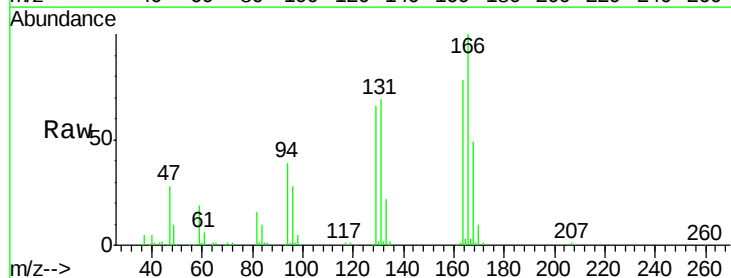
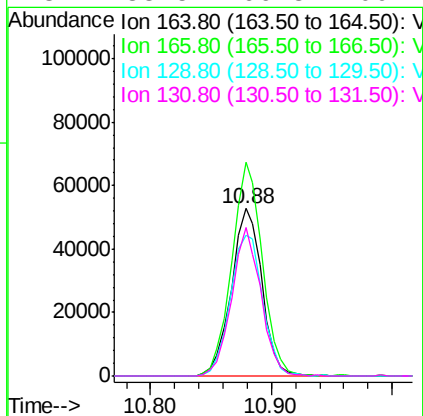
Manual Integrations
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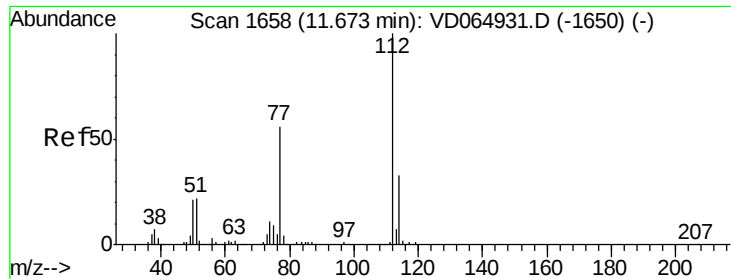
MMDadoda
2/3/2020 10:52:23 AM



#64
Tetrachloroethene
Concen: 20.991 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	93116		
166	127.8	101.4	152.2	
129	84.1	71.8	107.8	
131	88.5	66.8	100.2	





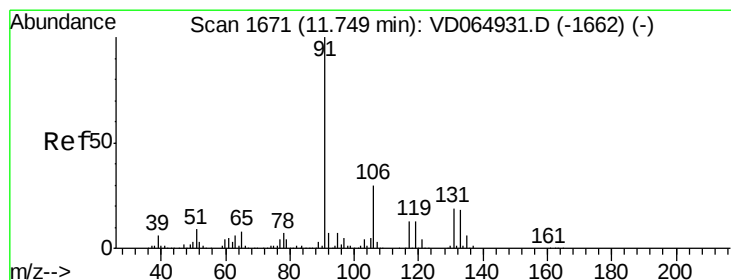
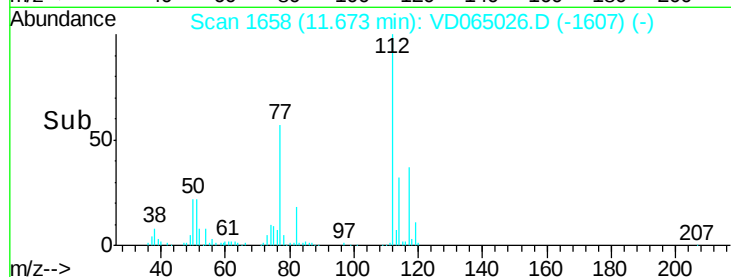
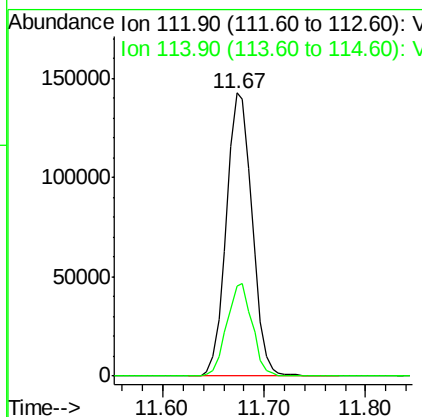
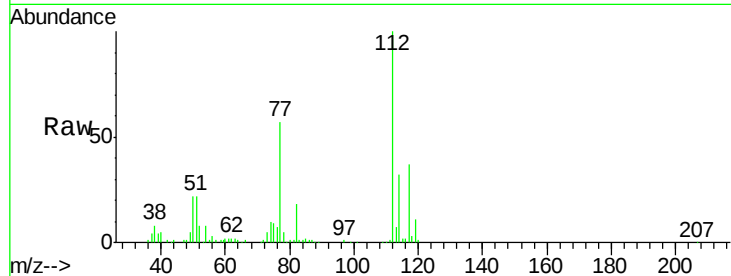
#65
Chlorobenzene
Concen: 20.257 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion:112 Resp: 252471
Ion Ratio Lower Upper
112 100
114 32.0 26.2 39.4

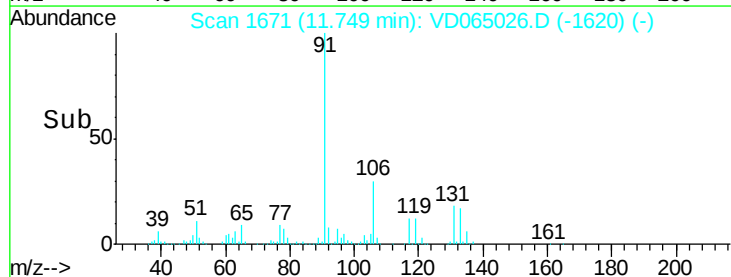
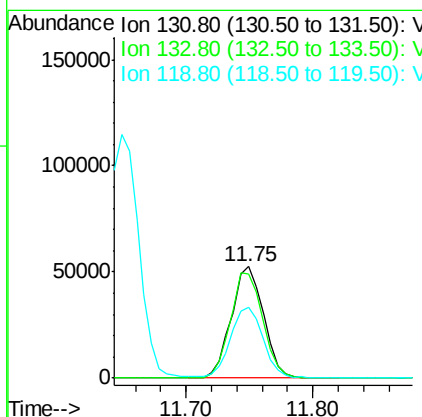
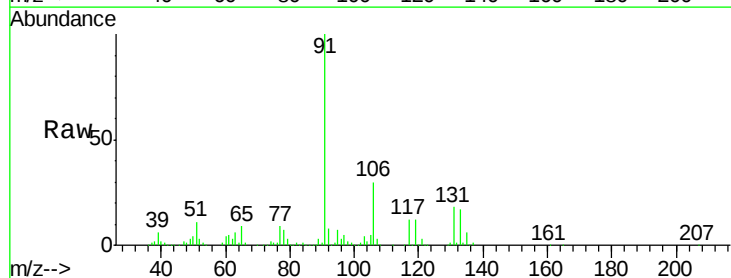
Manual Integrations
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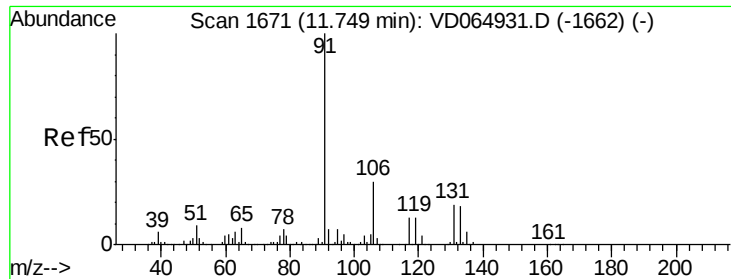
MMDadoda
2/3/2020 10:52:23 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.718 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion:131 Resp: 92426
Ion Ratio Lower Upper
131 100
133 95.3 47.5 142.5
119 64.7 31.1 93.5





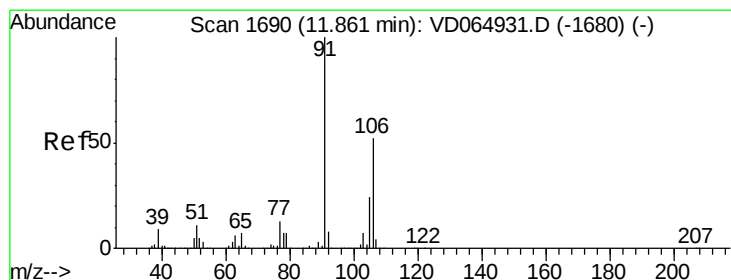
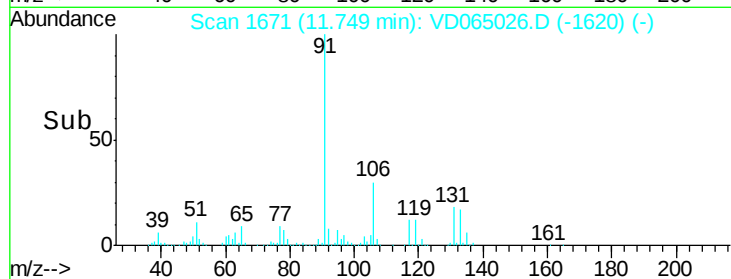
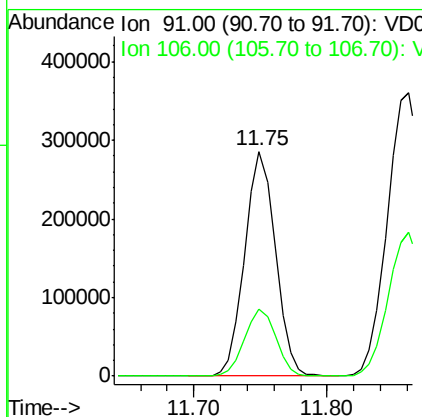
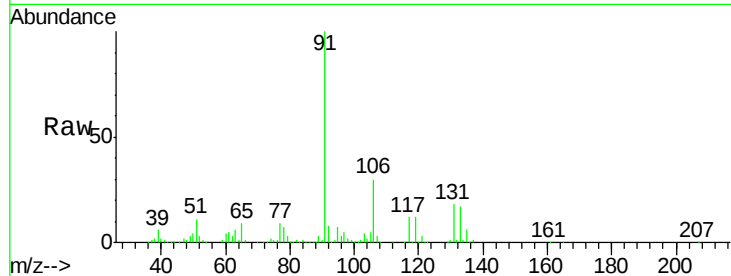
#67
Ethyl Benzene
Concen: 20.560 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		454931		
106	29.9	24.3	36.5		

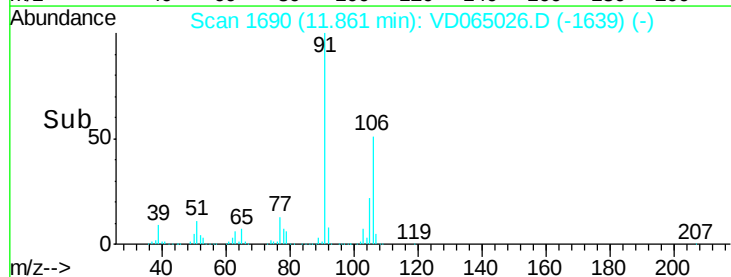
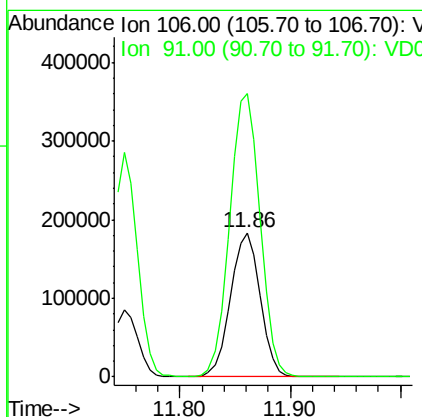
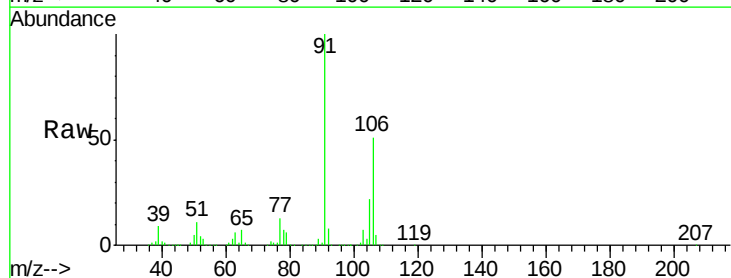
Manual Integrations
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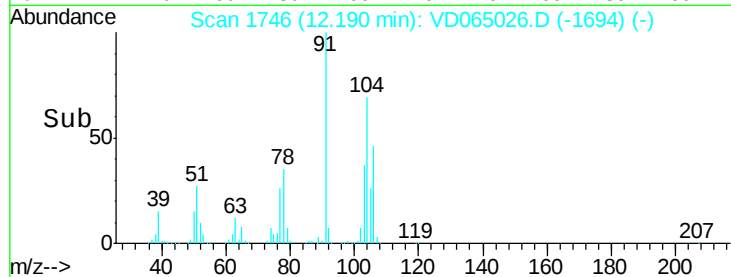
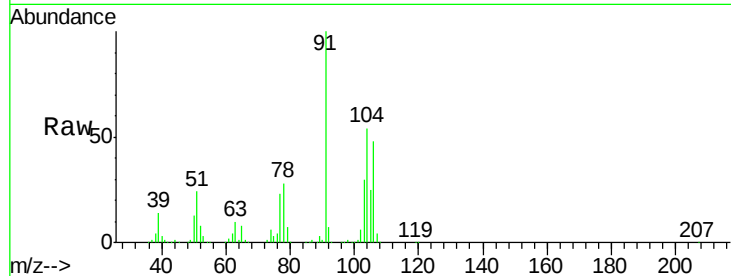
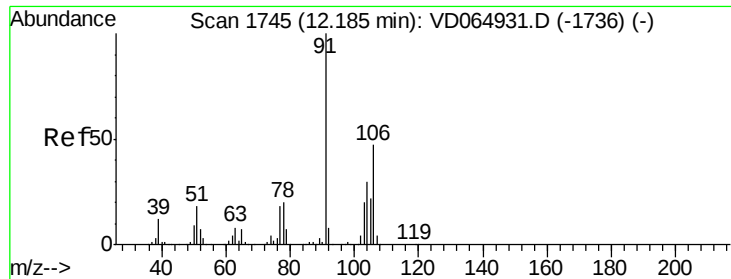
MMDadoda
2/3/2020 10:52:23 AM



#68
m/p-Xylenes
Concen: 40.704 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		346777		
91	201.2	159.0	238.4		





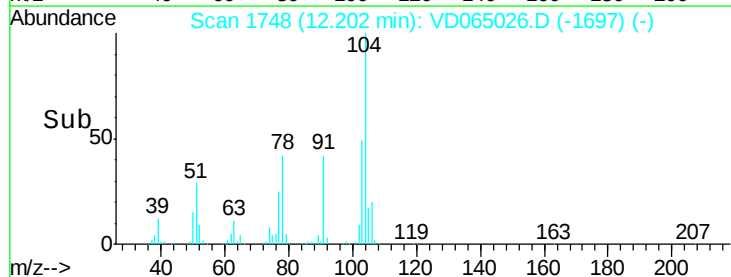
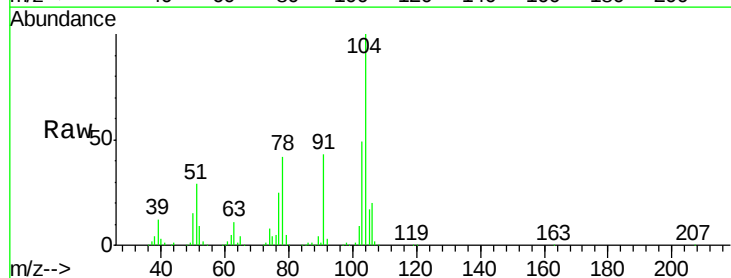
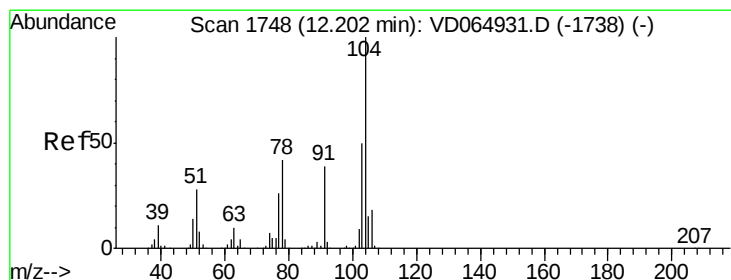
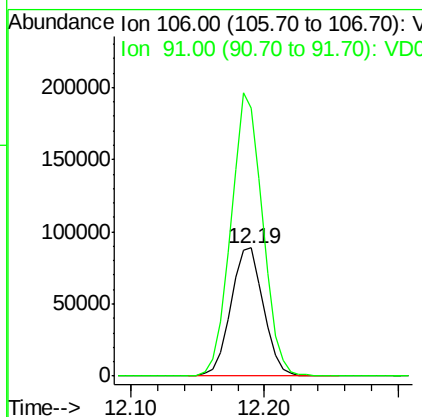
#69
o-Xylene
Concen: 19.973 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tot Ion:106 Resp: 151019
Ion Ratio Lower Upper
106 100
91 214.9 106.7 319.9

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

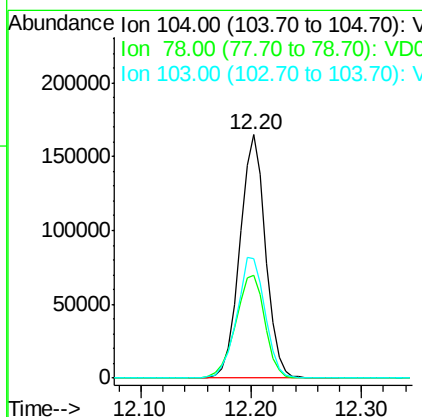
Manual Integrations
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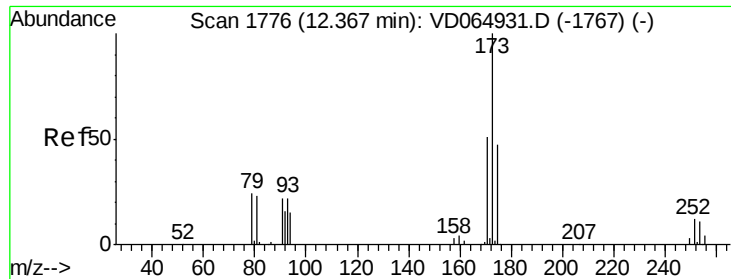
MMDadoda
2/3/2020 10:52:23 AM



#70
Styrene
Concen: 20.023 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion:104 Resp: 269685
Ion Ratio Lower Upper
104 100
78 48.1 38.3 57.5
103 54.5 43.5 65.3





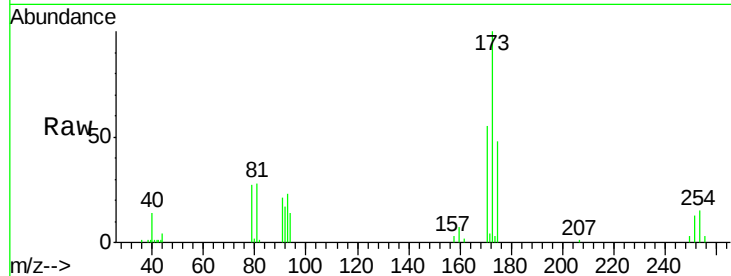
#71
Bromoform
Concen: 18.700 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

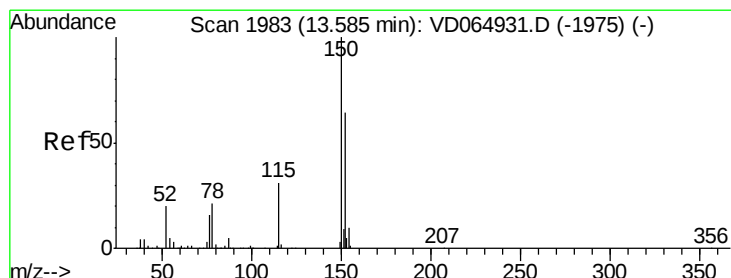
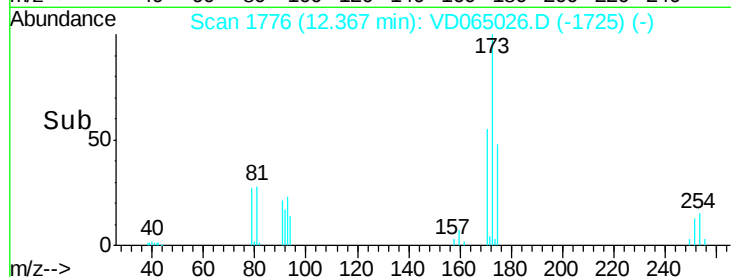
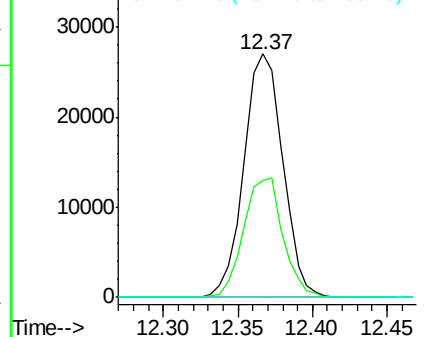
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.6	73.8
254	0.0	0.1	0.1#

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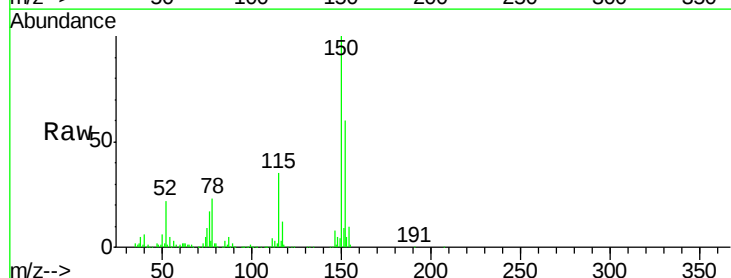


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

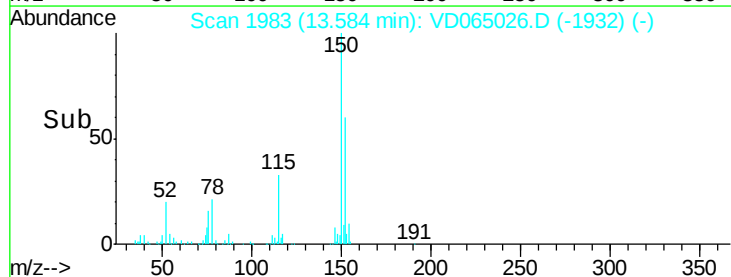
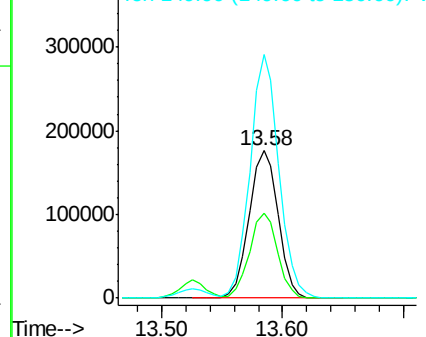


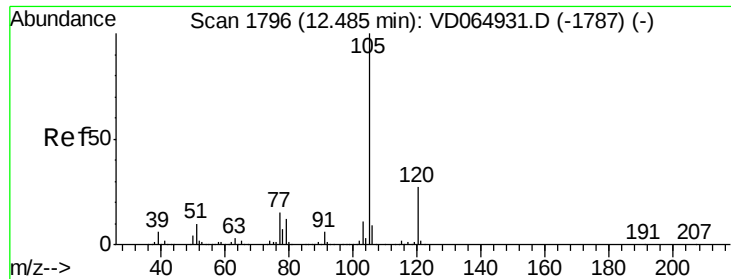
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.1	84.4
150	164.0	0.0	350.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.009 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion:105 Resp: 423885

Ion Ratio Lower Upper

105 100

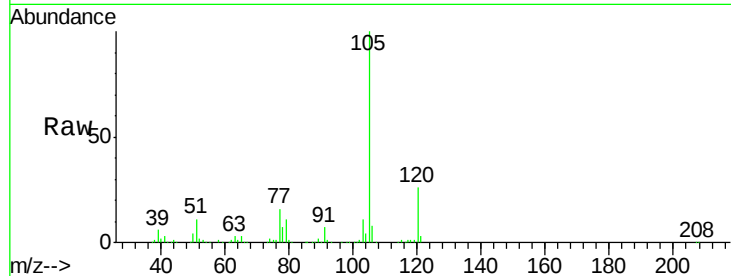
120 26.5 13.3 39.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

300000

250000

200000

150000

100000

50000

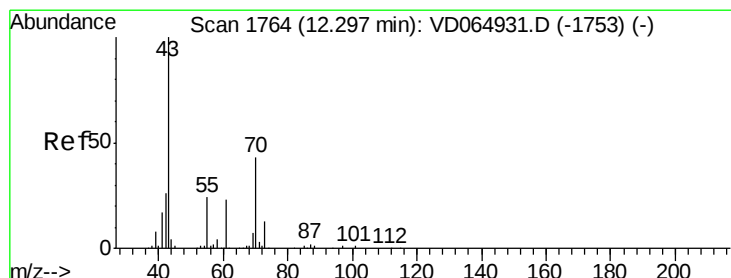
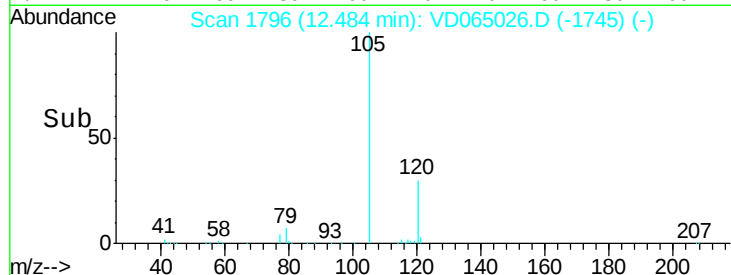
0

12.48

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 17.910 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion: 43 Resp: 80859

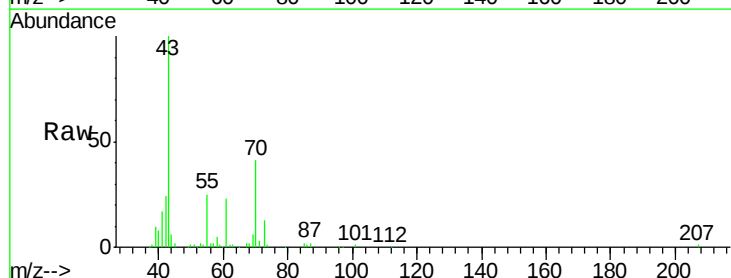
Ion Ratio Lower Upper

43 100

70 41.3 32.6 49.0

55 26.4 19.9 29.9

61 22.6 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

80000

60000

40000

20000

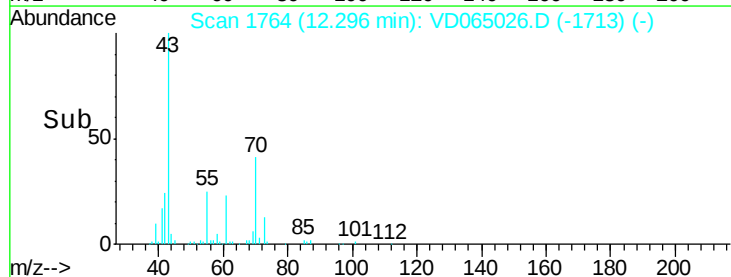
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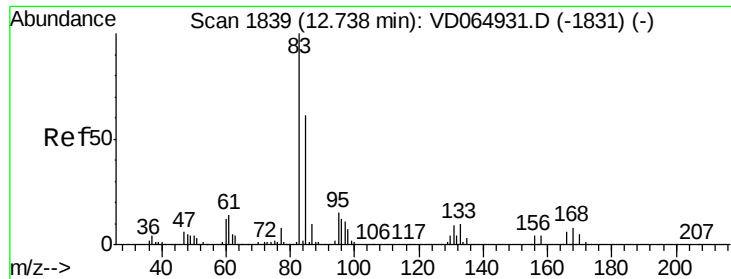
12.30

12.20

12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.367 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

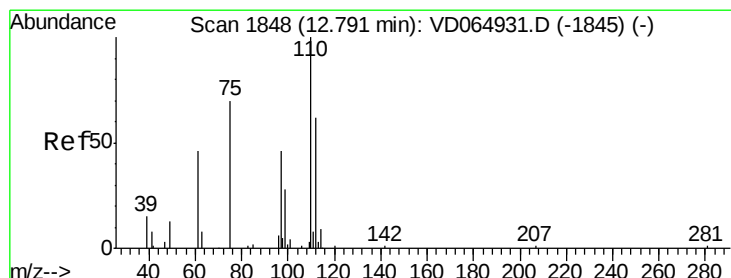
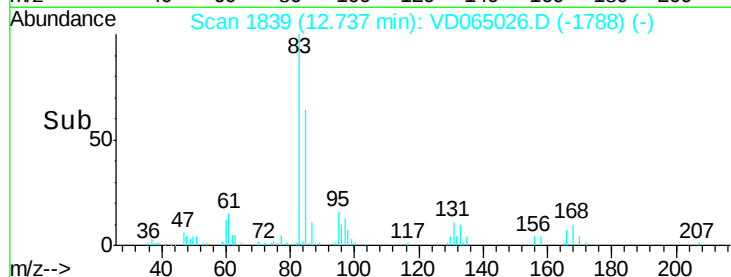
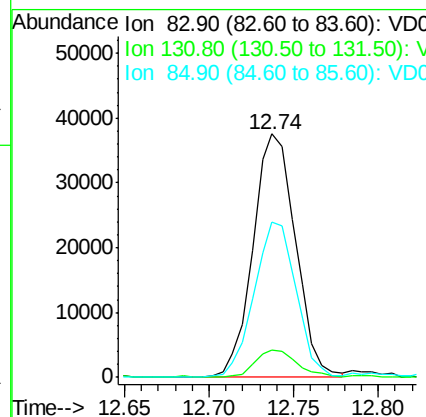
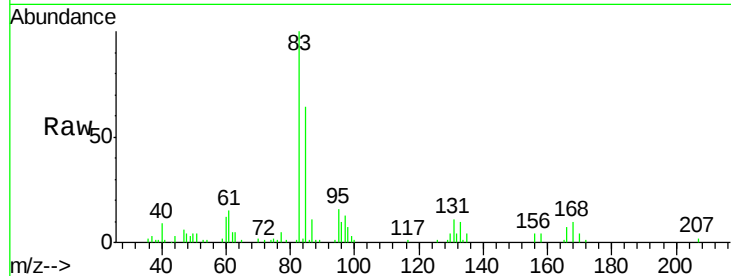
ClientSampleId :

VD0131SBS01

Tot Ion:	83	Resp:	65676
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.5	16.4
85	63.4	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.896 ug/l m

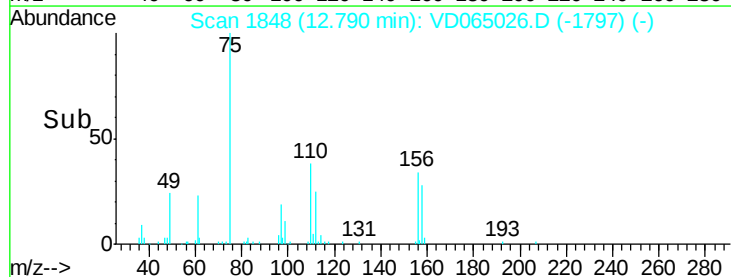
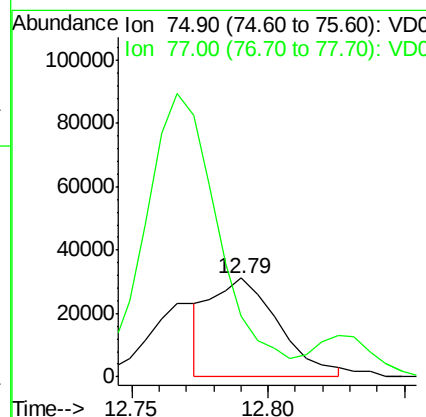
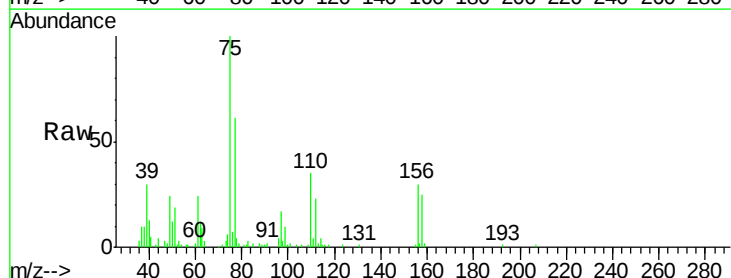
RT: 12.79 min Scan# 1848

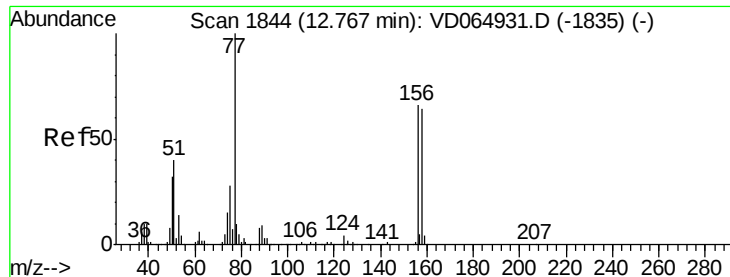
Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	75	Resp:	53650
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.243 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

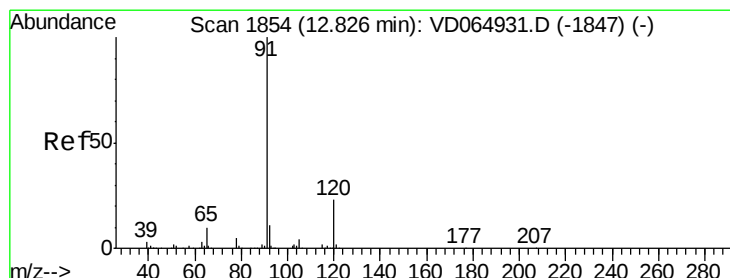
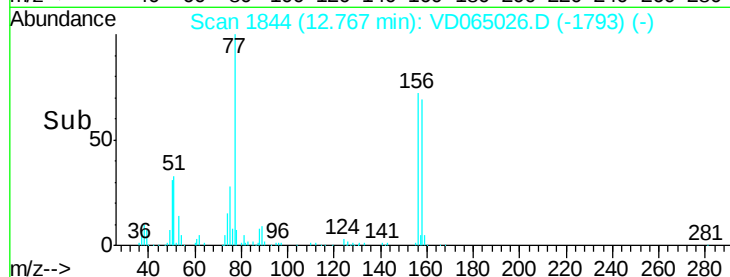
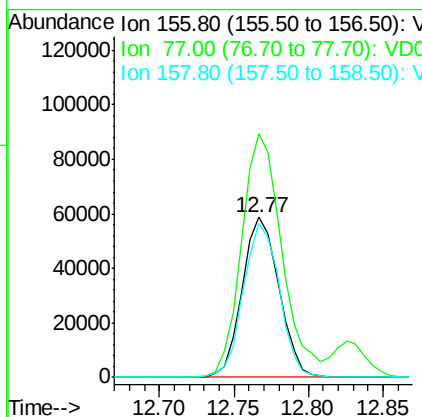
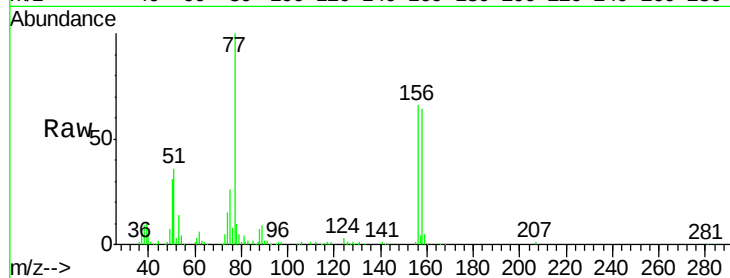
ClientSampleId :

VD0131SBS01

Tot Ion:	156	Resp:	99934
Ion Ratio	Lower	Upper	
156	100		
77	167.6	84.2	252.5
158	94.7	48.1	144.4

Manual Integrations
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#78

n-propylbenzene

Concen: 21.326 ug/l

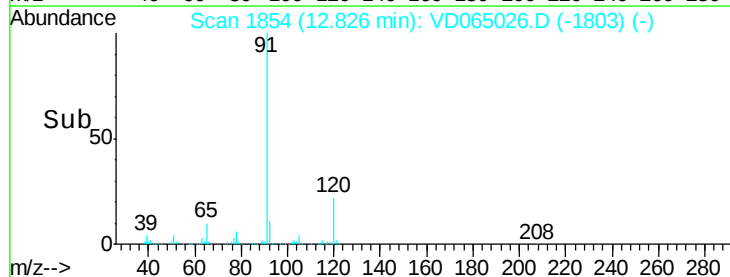
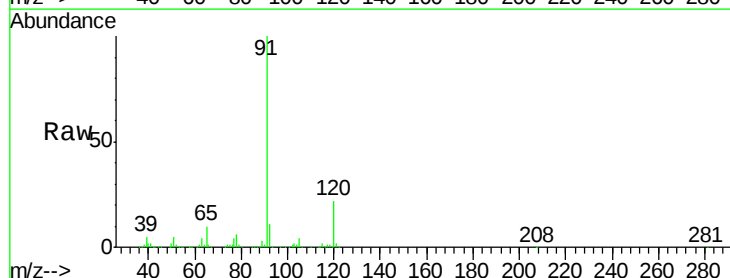
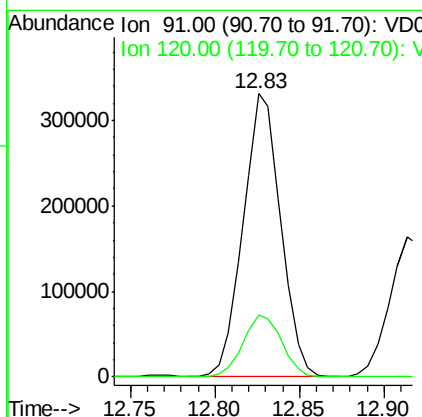
RT: 12.83 min Scan# 1854

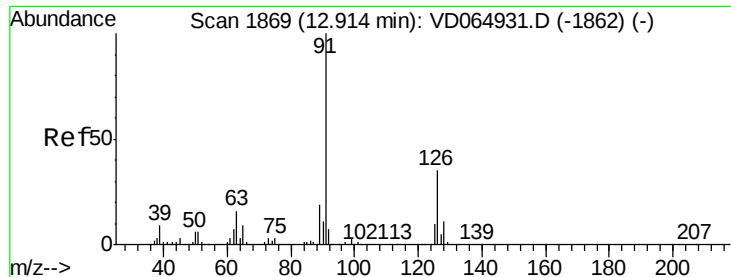
Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	91	Resp:	511715
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.7	35.1





#79

2-Chlorotoluene

Concen: 20.751 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion: 91 Resp: 273151

Ion Ratio Lower Upper

91 100

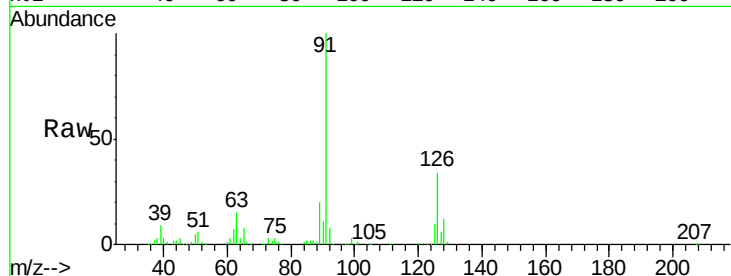
126 36.5 17.9 53.8

Manual Integrations

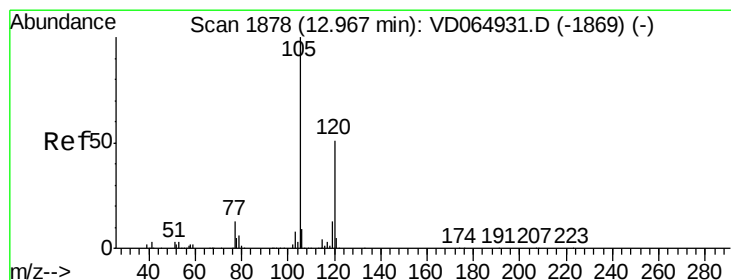
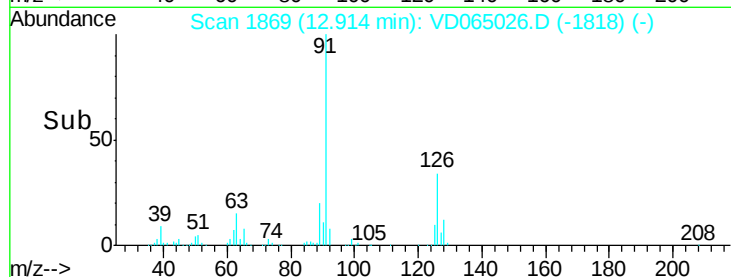
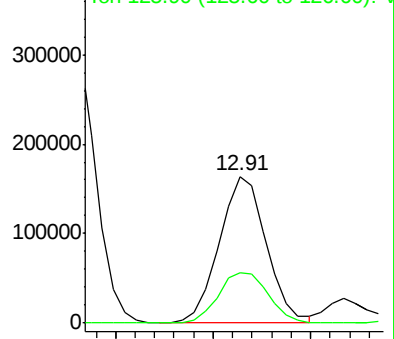
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Abundance Ion 91.00 (90.70 to 91.70): VD064931.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.216 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065026.D

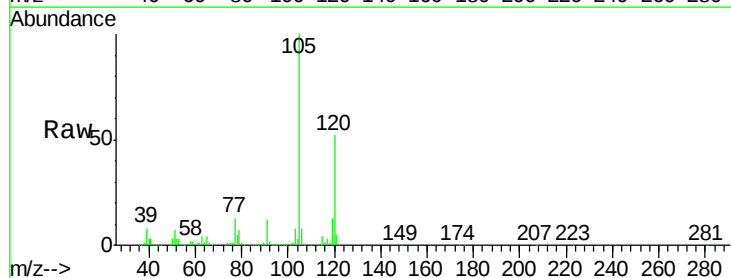
Acq: 31 Jan 2020 11:33

Tgt Ion: 105 Resp: 350791

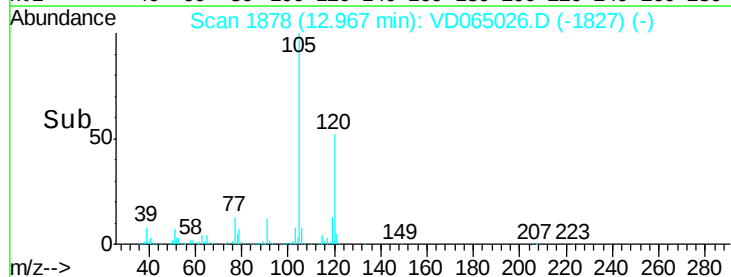
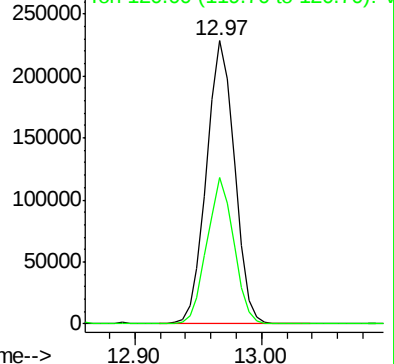
Ion Ratio Lower Upper

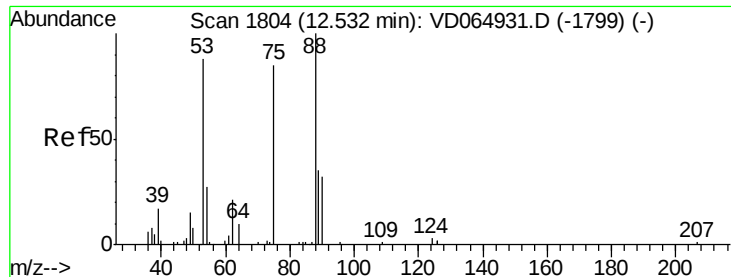
105 100

120 49.6 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VD064931.D (-1869) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.015 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

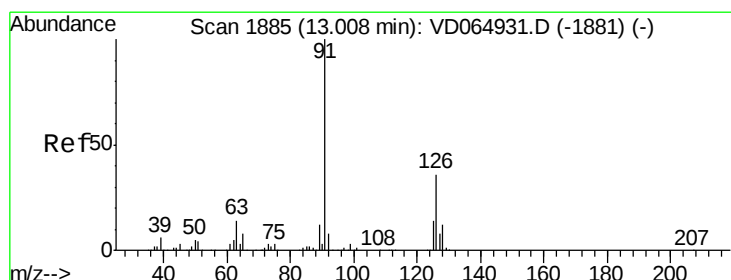
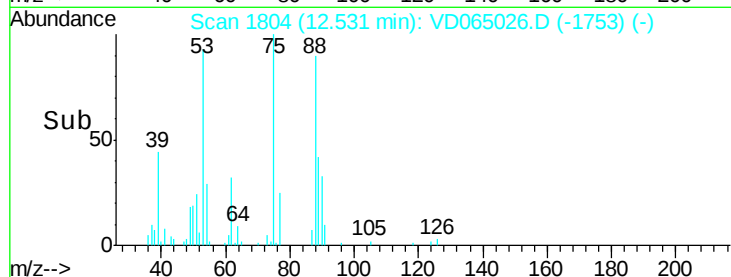
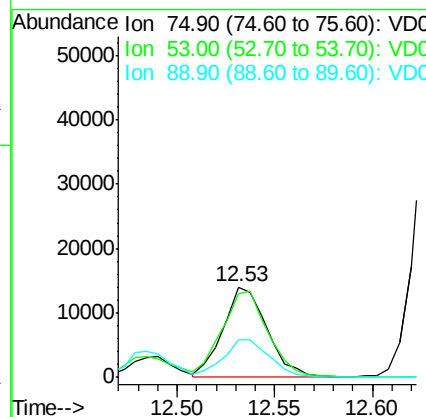
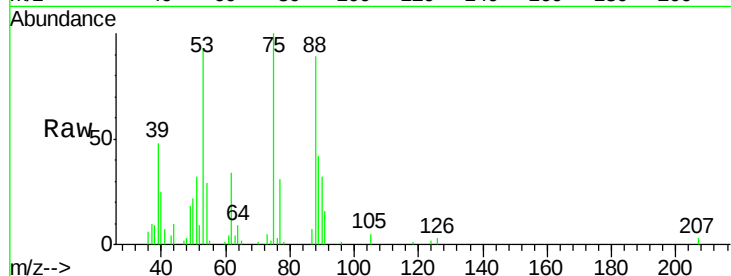
ClientSampleId :

VD0131SBS01

Tot Ion:	75	Resp:	21820
Ion	Ratio	Lower	Upper
75	100		
53	100.1	81.0	121.4
89	44.0	36.2	54.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.657 ug/l

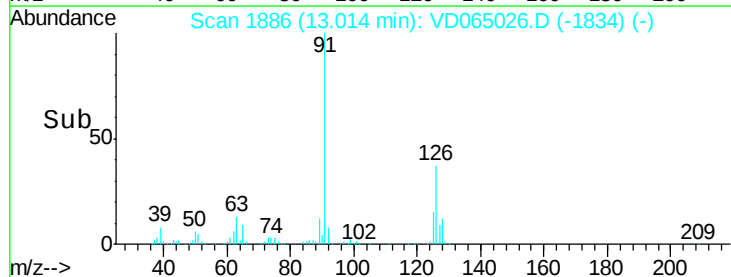
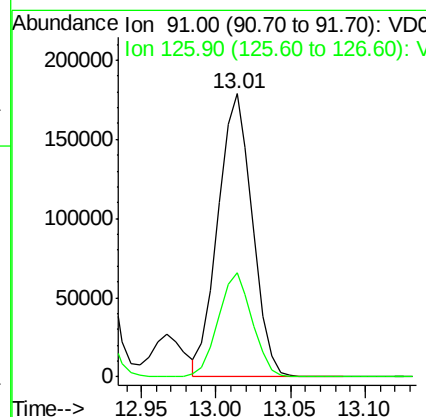
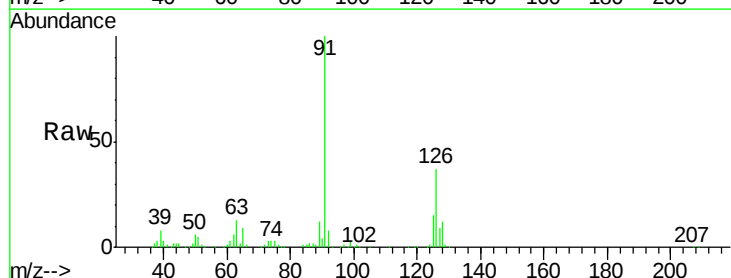
RT: 13.01 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	91	Resp:	288357
Ion	Ratio	Lower	Upper
91	100		
126	36.4	18.0	54.0





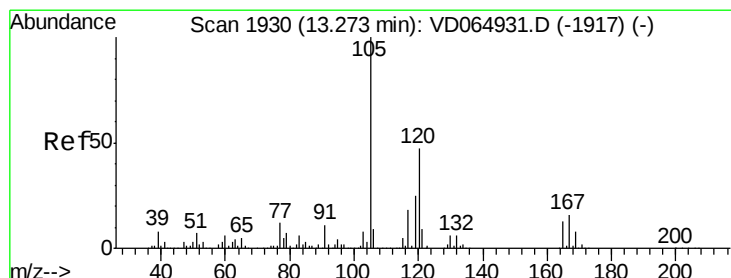
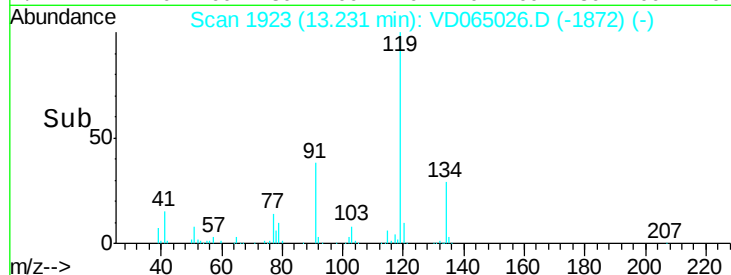
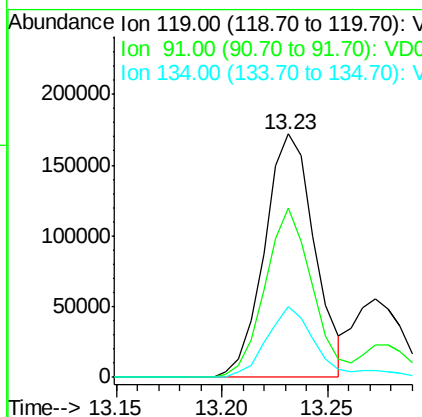
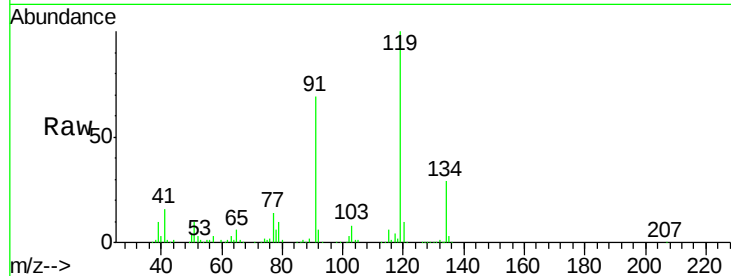
#83
tert-Butylbenzene
Concen: 20.202 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	283460		
91	66.1		32.0	96.0
134	29.3		13.9	41.6

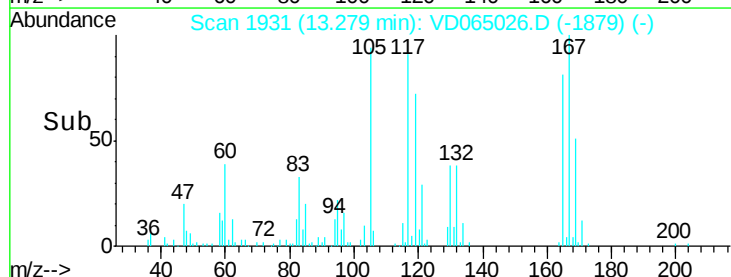
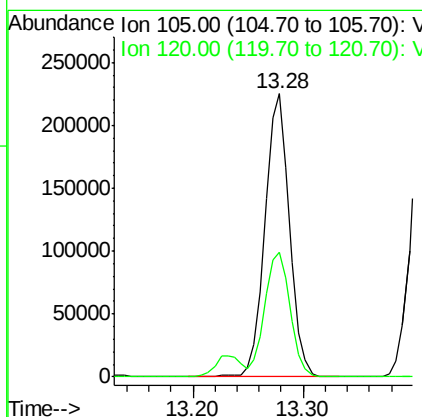
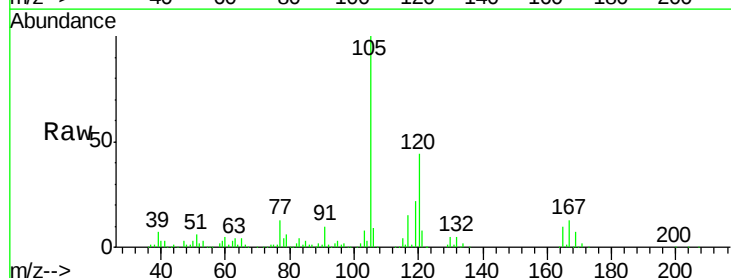
Manual Integrations
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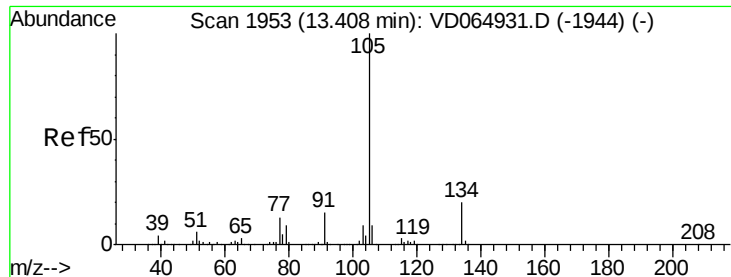
MMDadoda
2/3/2020 10:52:23 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.905 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	350154		
120	45.9		23.1	69.3





#85

sec-Butylbenzene

Concen: 20.946 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

ClientSampleId :

VD0131SBS01

Tot Ion:105 Resp: 416151

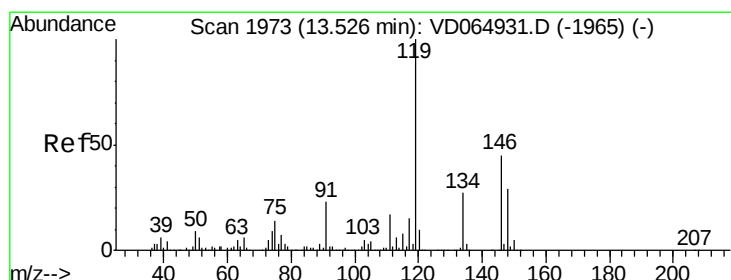
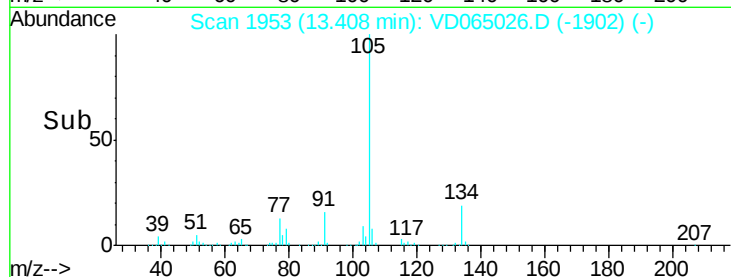
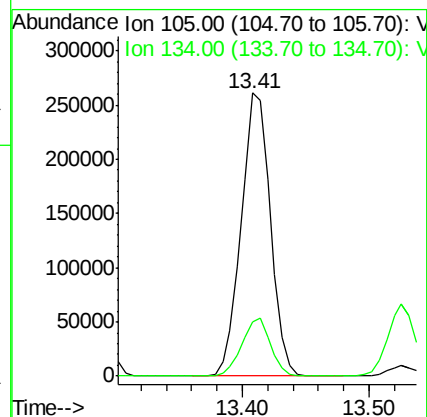
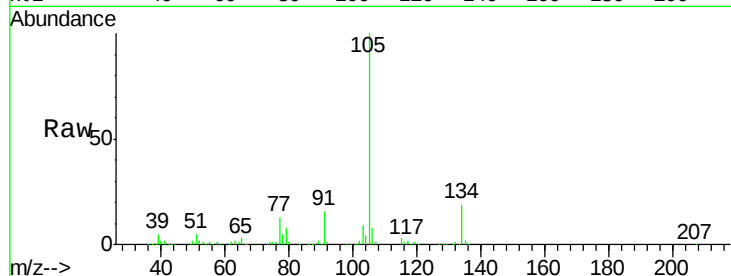
Ion Ratio Lower Upper

105 100

134 20.1 10.4 31.4

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2/3/2020 10:52:23 AM



#86

p-Isopropyltoluene

Concen: 20.701 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

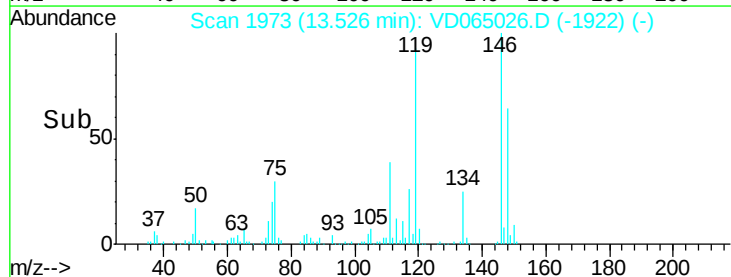
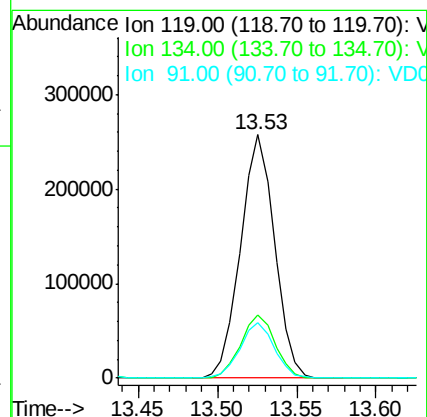
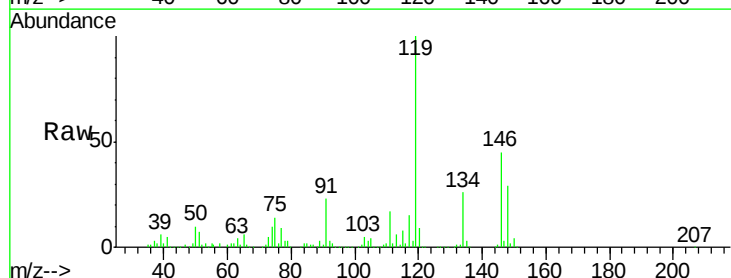
Tgt Ion:119 Resp: 384849

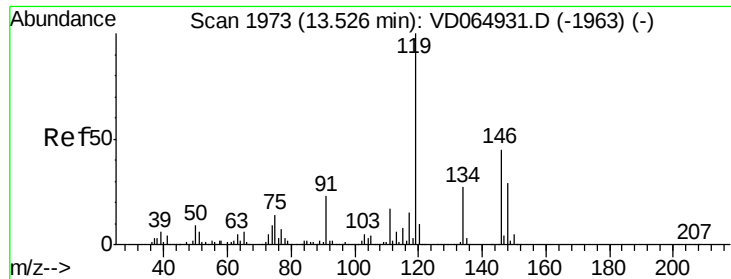
Ion Ratio Lower Upper

119 100

134 26.0 13.3 39.9

91 22.9 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 20.026 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

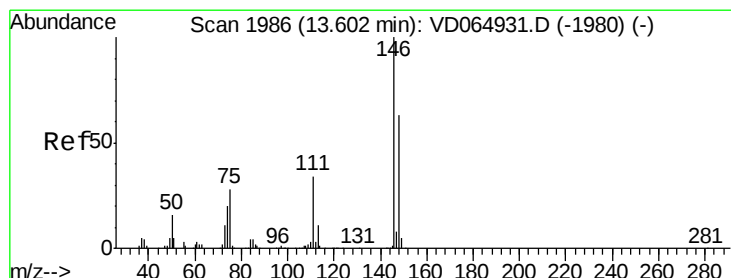
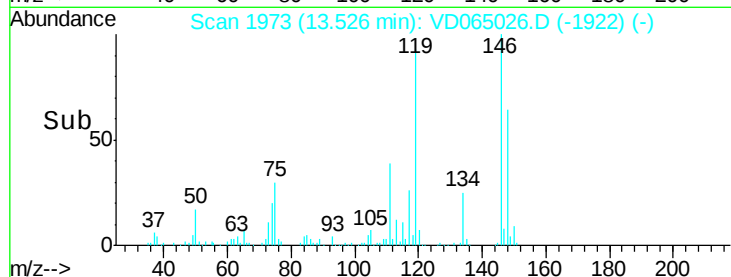
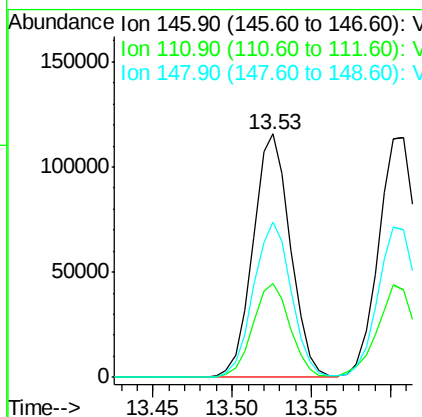
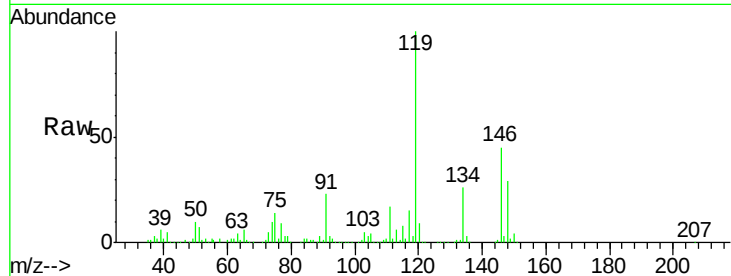
ClientSampleId :

VD0131SBS01

Tot Ion:	146	Resp:	189686
Ion Ratio	Lower	Upper	
146	100		
111	38.5	18.9	56.9
148	64.7	32.6	97.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.481 ug/l

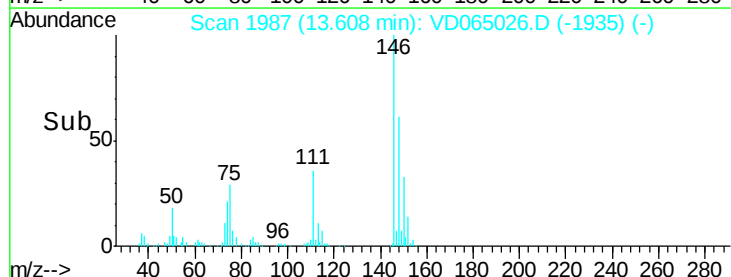
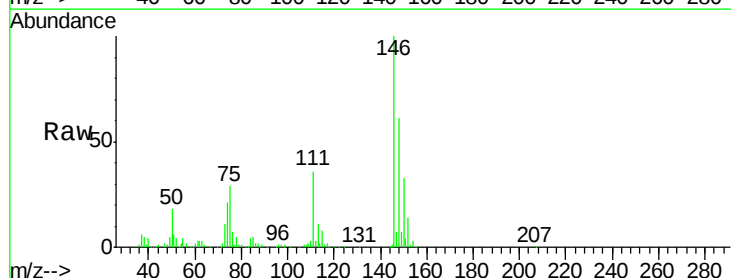
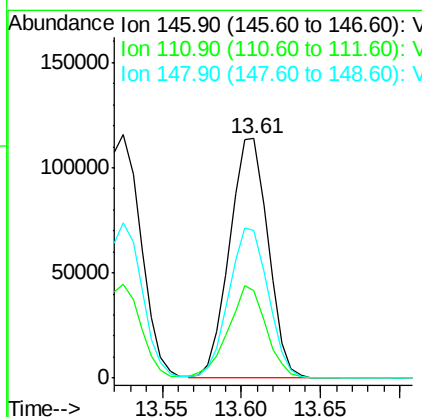
RT: 13.61 min Scan# 1987

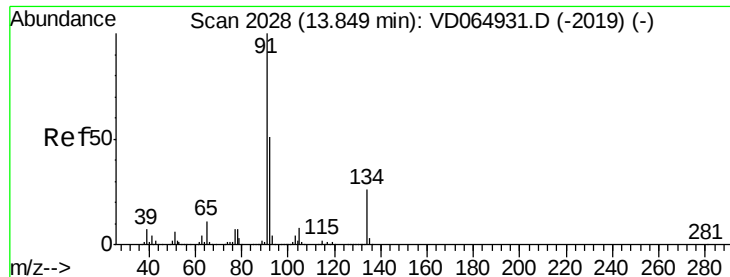
Delta R.T. 0.01 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	146	Resp:	192542
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.2	54.6
148	64.4	32.0	96.0





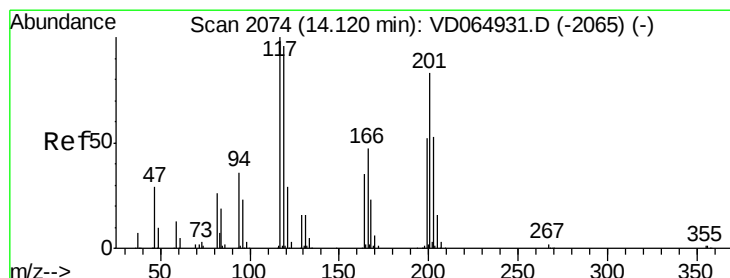
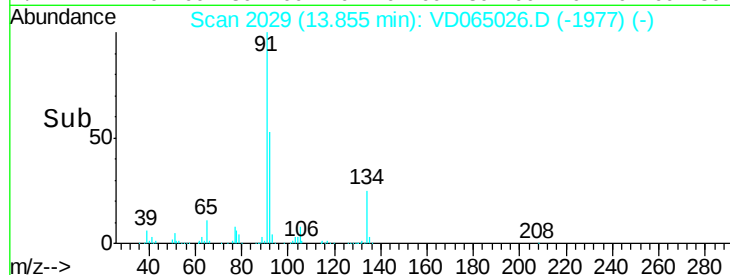
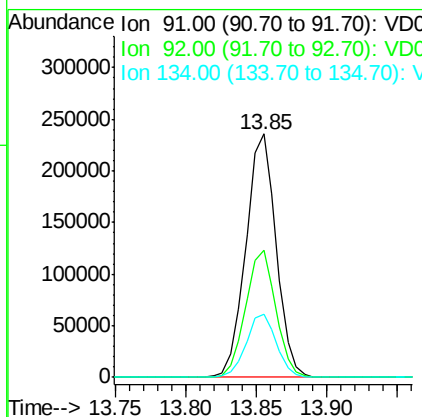
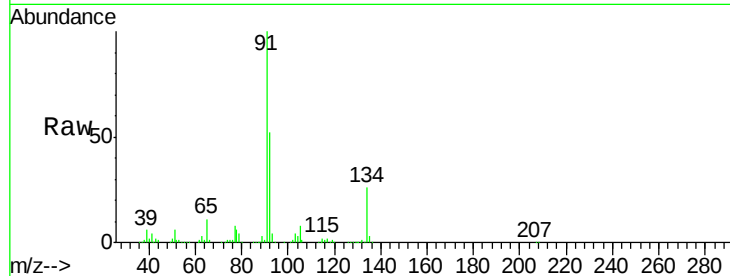
#89
n-Butylbenzene
Concen: 20.934 ug/l
RT: 13.85 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_D
ClientSampleId :
VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	355174		
92	52.1		26.4	79.0
134	26.0		13.3	39.9

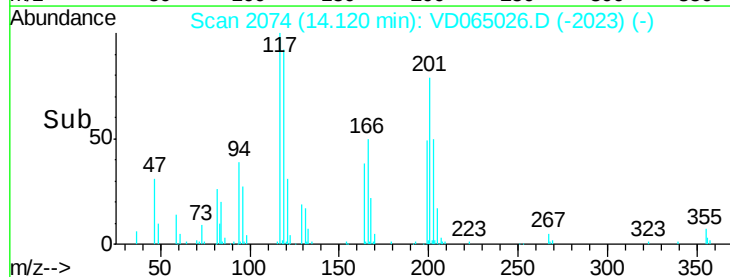
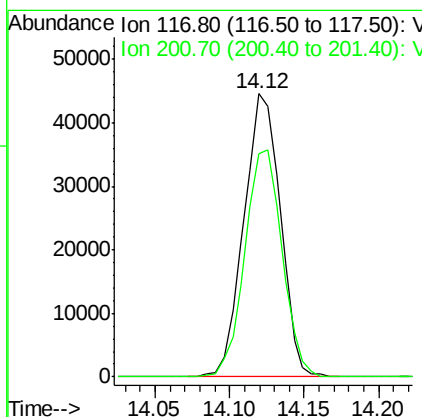
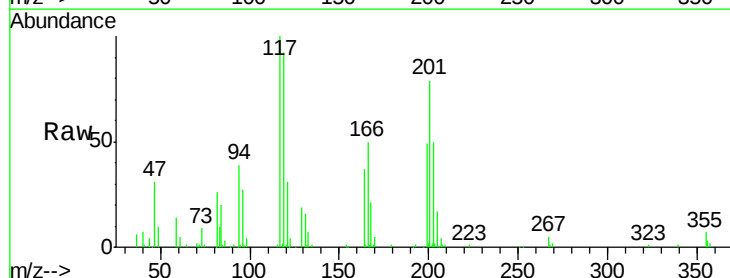
Manual Integrations
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2/3/2020 10:52:23 AM



#90
Hexachloroethane
Concen: 21.030 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD065026.D
Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	75396		
201	81.6		41.1	123.3





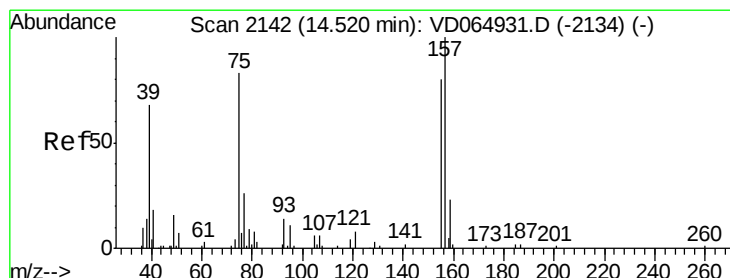
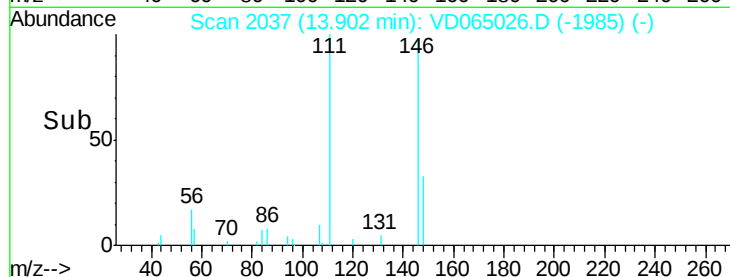
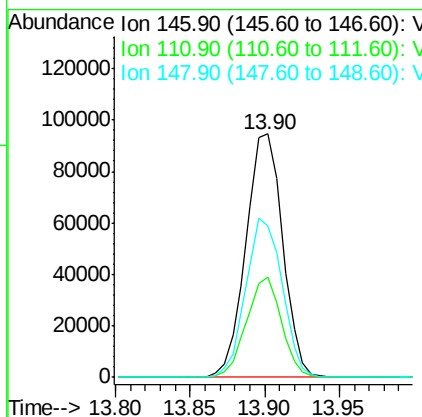
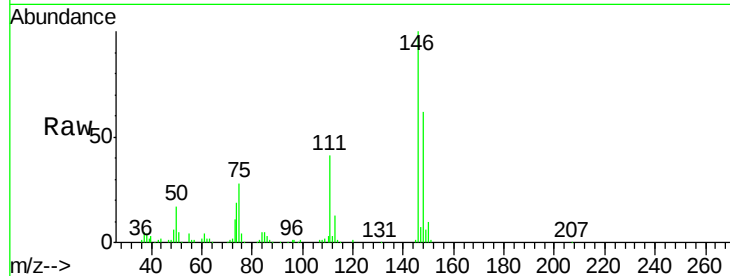
#91
 1,2-Dichlorobenzene
 Concen: 20.072 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.4	58.2
148	64.9	31.6	95.0

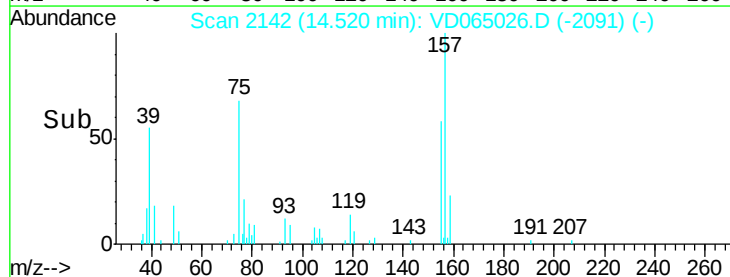
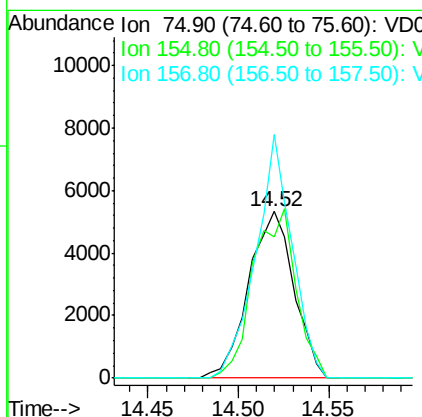
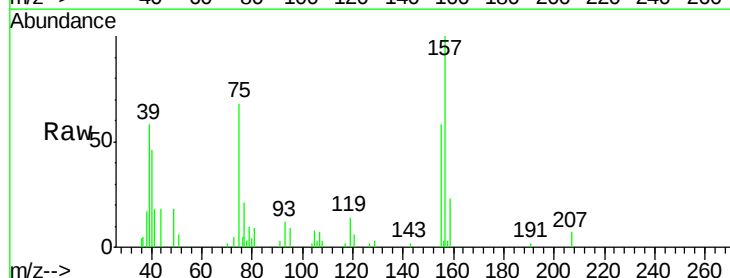
Manual Integrations
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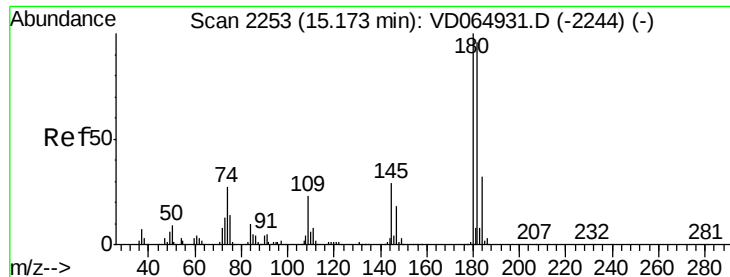
MMDadoda
 2/3/2020 10:52:23 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.030 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.1	44.9	134.7
157	118.1	58.9	176.6





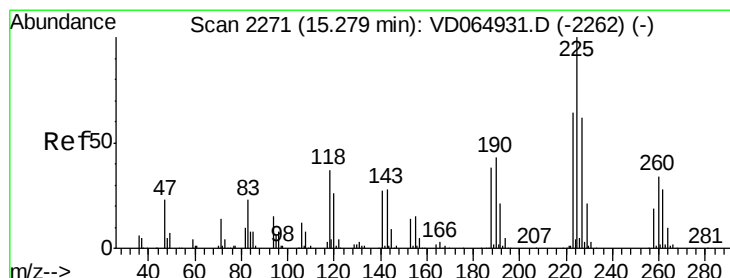
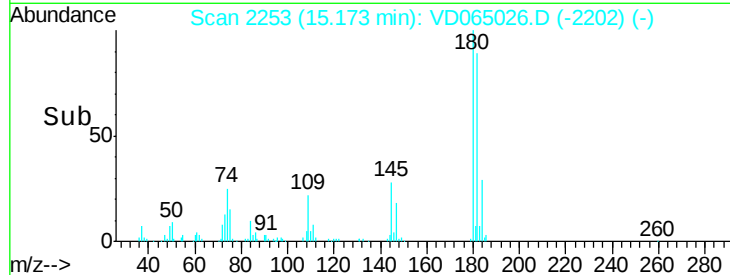
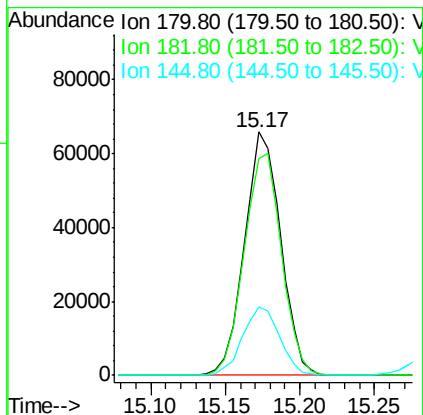
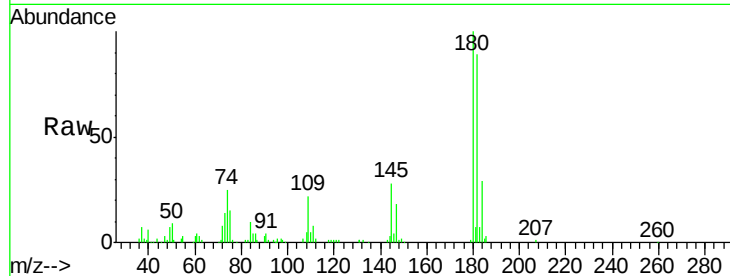
#93
 1,2,4-Trichlorobenzene
 Concen: 19.853 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0131SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	110448		
182	94.0	47.1	141.4	
145	28.8	14.1	42.3	

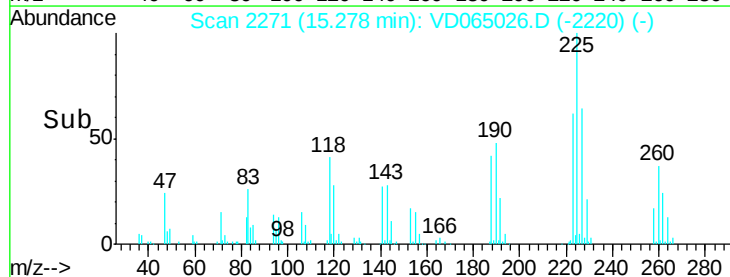
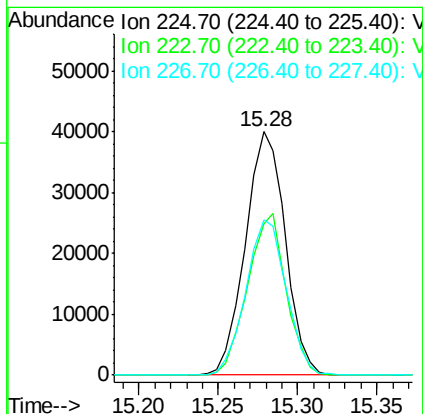
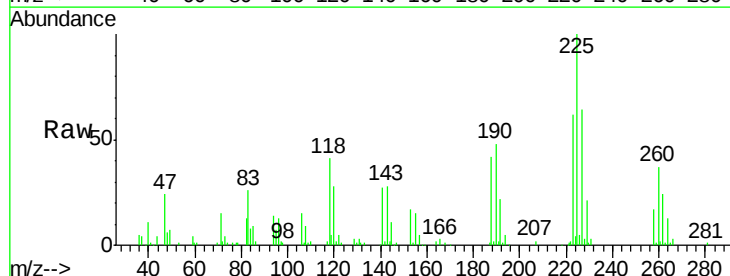
Manual Integrations
 APPROVED

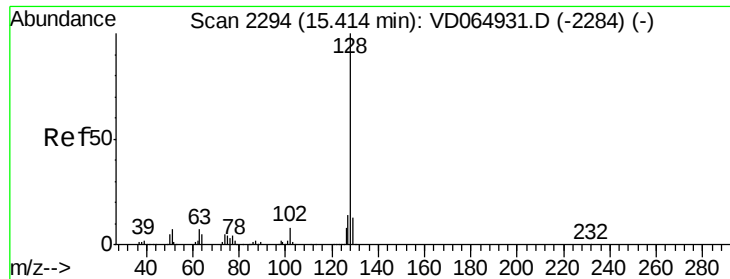
MMDadoda
 2/3/2020 10:52:23 AM



#94
 Hexachlorobutadiene
 Concen: 19.850 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VD065026.D
 Acq: 31 Jan 2020 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	69847		
223	64.1	32.4	97.2	
227	64.7	31.9	95.9	





#95

Naphthalene

Concen: 17.599 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_D

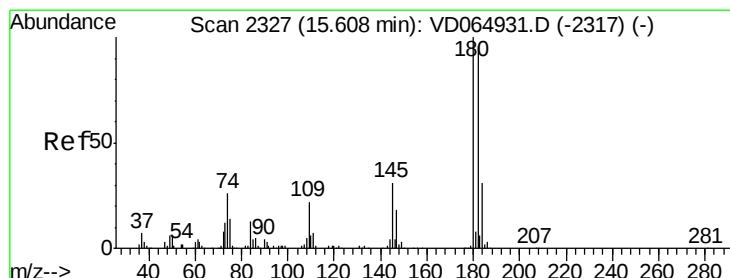
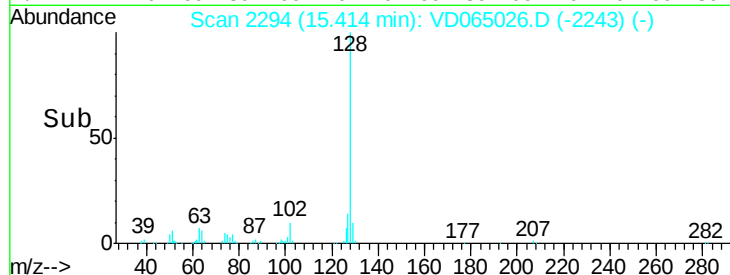
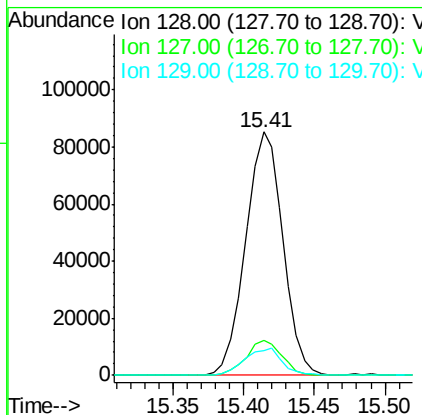
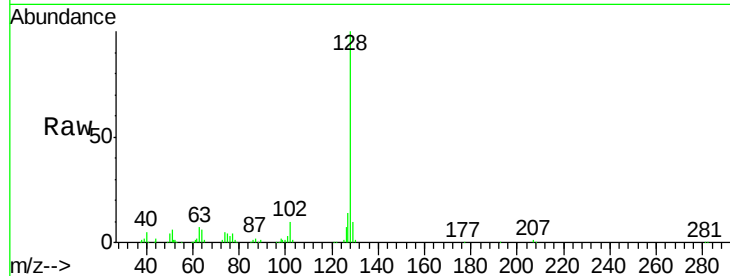
ClientSampleId :

VD0131SBS01

Tot Ion:	128	Resp:	158009
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.6	15.8
129	11.2	9.3	13.9

Manual Integrations
APPROVED

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2/3/2020 10:52:23 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.413 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VD065026.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	180	Resp:	93637
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.3	141.8
145	29.6	14.6	43.8

